

The CHEMIST AND DRUGGIST

RETAILER - WHOLESALE - MANUFACTURER

ed 1859

28 Essex Street, Strand, London, W.C.2

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AUGUST 14, 1943

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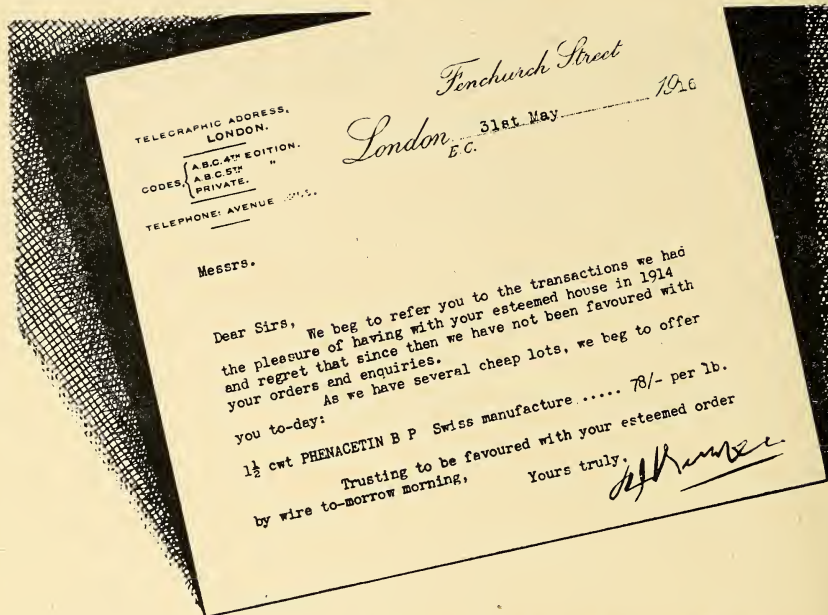
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1914 { One of our friends turning out some salvage the other day came across the above letter which he sent us as matter of interest. War had then barely been waged for two years, and the country was in desperate straits for numerous essential medicinals.

1918 { The earlier dependence of this country on German supplies was soon bringing retribution in fantastic scarcity prices.

1939 { Now, after three years of war, the steady building in pre-war days of a British fine chemicals industry brings its reward.

1942 { Users of Phenacetin who supported British manufacture in peace time now rely comfortably on steady supplies from MONSANTO—and at a price not far removed from peace time level.

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TERMS OF SUPPLY:

- 1 Bonus in kind will be allowed only when one or more standard parcels G, H, J, K, L, M are ordered.
- 2 The order must be accompanied by cash. No pro-forma invoices can be issued.
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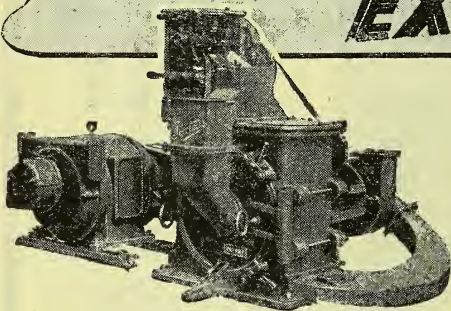
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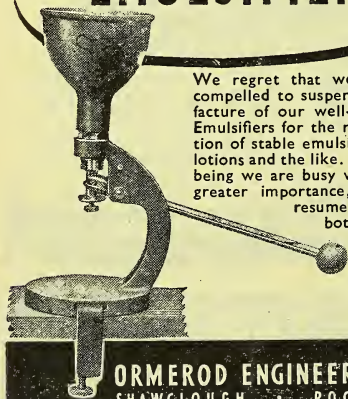
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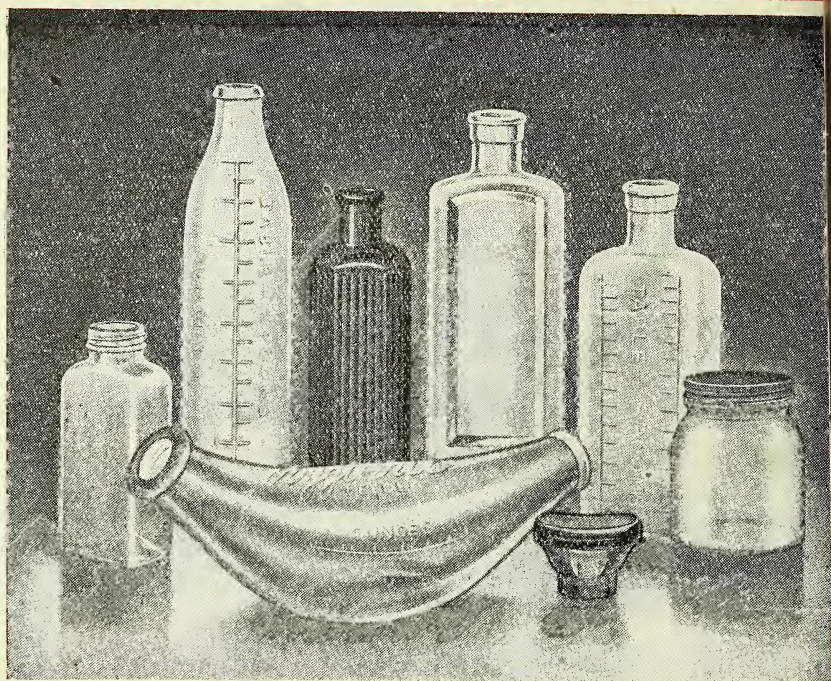
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**MANESTY
Nº2
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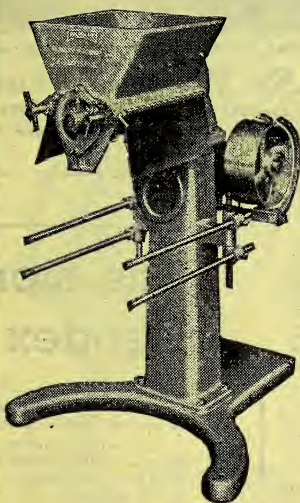
TABLETS UP TO $\frac{1}{2}$ " DIAM.



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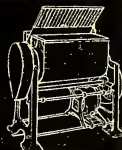


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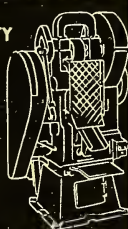
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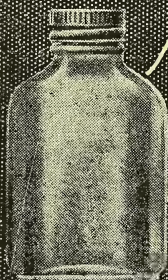
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NEWS OF THE WEEK

Summer Time.—Double summer time ends on the night of August 14-15, when clocks will be put back one hour. The summer time then in force will be one hour in advance of Greenwich Mean Time.

Commodity Insurance Premium Rate.—The Board of Trade has, with the approval of the Treasury, decided to maintain at 6s. 6d. per cent. per month the rate of premium payable under any policy issued under the commodity insurance scheme during the period beginning September 3 and ending December 2. The monthly and three-monthly policies for a fixed sum and the three-monthly adjustable policies previously issued are to be continued.

New Fire Guard Rules.—The Minister of Home Security has issued three new Orders under the Defence (Fire Guard) Regulations, 1943. These are the Fire Guard (Local Authority Services) Order (S. R. & O. 1043), price 6d.; the Fire Guard (Business and Government Premises) Order (S. R. & O. 1044), price 1s.; and the Fire

Guard (Medical and Hardship Exemptions) Order (S. R. & O. 1045), price 2d. The new Orders constitute a single code embodying everything connected with the fire guard service. There has also been issued an "explanatory memorandum" (price 6d.) which deals with the general scope of the Regulations and the Orders and the difference between them and their predecessors.

Pharmacy Students.—The Council of the National Union of Students has ratified the constitution of the Pharmacy Faculty Committee (C. & D., May 15, p. 506). The organisation is to be known as the British Pharmaceutical Students' Association. The executive of the Association met for the first time at Cardiff on July 30. Discussion took place on student health, educational reform, the policy of the Association and arrangements for an annual conference. The first conference will be held early in 1944. All students and apprentices interested in the organisation should write to the secretary at 59 Station Street, Barry.

Chemists' Friends Association.—A meeting of the council of the Association was held in London on July 20, the president (Mr. J. D. Bohn) in the chair. THE SECRETARY reported that Chase Laboratories, Ltd., London, had agreed, at the request of the council, to amend wording used on labels and in advertisements relating to Chase stomach remedy, and acceptance of the product for inclusion in the C.F. list was confirmed. An application from a C.F. manufacturer to supply products for re-sale in hostels was not granted. The administration of the C.F. movement in Scotland was deferred for full consideration at the next meeting. A C.F. manufacturer submitted a statement that in his opinion the present position regarding export of proprietary articles was not satisfactory, and it was resolved that the secretary should approach the Board of Trade on the matter. The council considered twenty-seven applications for the continuance of supplies of C.F. products to businesses temporarily converted into drug stores, and accepted them all subject to approval of the local branch of the National Pharmaceutical Union.

Amended Order for Flash-lamp Bulbs.

The Board of Trade, in consultation with the Central Price Regulation Committee, has made an Order amending the Flash-lamp Bulbs (Maximum Prices) Order, (S. R. & O., 1943, No. 247) in the following ways: The provisions and schedule under which wholesalers and retailers were allowed a period in which to clear any stocks of Far Eastern bulbs bought at a higher price are deleted, the period having now elapsed. The definition of flash-lamp bulbs has been altered to exclude bulbs used in miners' safety lamps and to include only bulbs designed and manufactured for intermittent use. The maximum prices for tested bulbs have not been altered, but when untested bulbs are sold by one trader to another and any defective bulbs are returned within twenty-eight days from the date of consignment, the maximum price is to be reduced by an amount in proportion to the number of defective bulbs. When a retailer sells untested bulbs to the public, the same provision applies if any defective bulbs are returned the day after the sale. A defective bulb is defined as one which contains defects which can be discovered by any of the tests normally used in businesses handling bulbs. The new (No. 2) Order (S. R. & O., 1943, No. 1084) comes into force on August 16. Copies are available, price one penny.

Society's Offices Closed.—The offices of the Pharmaceutical Society of Ireland at 67 Lower Mount Street, Dublin, are closed during the month of August.

In the Courts.—For stealing a bottle of cod liver oil belonging to his employer The British Drug Houses, Ltd., Graham Street, London, N., Frederick Arthur Figg, a labourer, was fined £4 at Old Street Police Court on August 3.

Dispensing in Scotland Today.—A correspondent writes: "The number of prescriptions being dispensed by chemists at the present time shows generally a diminution from the average number dispensed during the winter months. Supplies coming forward from wholesalers though not quite so plentiful as in peacetime, are nevertheless amazing after four years of war."

Health Service Resolution by Insurance Committee.—The Lancashire Insurance Committee has passed a resolution "That a comprehensive medical service can be secured by extension of the existing scheme." They noted with concern Government statements that administration of the proposed medical service should be entrusted to local authorities, and also opposed the formation of a whole-time salaried medical service, which they regard as inconsistent with the avowed intention to maintain the free choice of doctor and personal relationship between doctor and patient.

Irish Drug Association.—Mr. F. Meagher (president) was in the chair at a committee meeting of the Irish Drug Association held on July 26, when the attention of members was directed to the retail price of 5½d. per oz. fixed for Zubas sold loose. This price, it was stated, showed a reasonable margin of profit and should be adhered to. Further protests were received from members about the action of the wholesale section of the Association in charging carriage on returned empties. The protests, the committee felt, should strengthen considerably the case already put forward by them in this matter. Members were again reminded to make every effort to secure the election of chemist candidates for the Senate (Messrs. P. C. Cahill and F. Loughman), who had been nominated by the Council of the Pharmaceutical Society. Notification had been received from the Department of Supplies that the sugar ration for medicinal manufacturing and dispensing purposes was 80 per cent. of the 1940 purchases, not 100 per cent. as previously notified.

TOPICAL REFLECTIONS

the Scope of Standards

An important question is raised in the chairman's address at the recent annual meeting of the British Standards Institution (152). After advocating "a single, independent, national standards organisation," Mr Percy Ashley deprecated standards set either by Government departments or by individual trade associations. No sensible person wishes to see amateurs in Government departments trifling with so highly technical a problem as the formulation of standards; but the work of individual trade associations in this field rests on a different basis. In some instances standards come into existence as the outcome of research, and remain valid till replaced by more complete knowledge. Such standards may be attributed to a single investigator, or may be the result of team-work. What is the precise nature of the suggestion from the chair of the S.I.? Is it the intention, for example, to supersede the authority of the Manchester Testing House or even of the Board of Trade? Before commerce is committed to the care of a nation-wide standards organisation, it should know definitely what is involved. As is (or should be) well known, the history of weights and measures in this country is a record of differing and sometimes conflicting standards. We may remind ourselves, too, that the views of one group of experts may be overthrown by another group after a brief interval. Thus, the set of standard weights ordered in 1574 by a London panel of merchants and goldsmiths was condemned eight years later by a similar and larger panel. Other examples could be given.

International Relations

This is actually an international rather than a national question, especially in view of the closer relations between sovereign states rendered inevitable by recent events. In 1844 Professor Miller, after many calculations, reported to the Standards Commission on the relative weights of the imperial pound and the kilogram. Great Britain formally joined the International Metric Commission in 1884; and during the next few years sixteen men of science shared the work of constructing various standards of length and weight. This body is presumably still in existence, and will no doubt resume its supervision of such standards when international action of this kind becomes possible again. Many other

examples of discrepancy in standards might be given. A few days ago I was momentarily held up, in reading a technical sentence, by the fact that the U.S.A. pint equals sixteen fluid ounces; similarly, the difference between the temperatures at which specific gravities are usually taken there and in this country is a source of inconvenience. Weights and measures are by no means the only fields where differing practice causes delay, sometimes necessitating calculation: they are selected here as being familiar. And lest it should be supposed that British weights and measures are greater offenders against regularity than any others, an article on the general topic in your Special Issue of June 29, 1929 (pp. 817-33), may be consulted. There it is shown, among other things, that in France the scruple weighed twenty grains in 1638 but had increased to twenty-four grains by 1732. What definition could have applied, in the circumstances, to the expression "scrupulous accuracy"?

Conference Papers

Year by year your abstracts of British Pharmaceutical Conference papers give pleasure to all who wish to know what is found acceptable for presentation in the Science Section: those on pp. 146-51 summarise monographs which well maintain the Conference tradition. In selecting two for mention I, of course, imply no invidious distinction between them and others. The further investigation of spray-drying by Dr. Kenneth Bullock and his collaborators seems to offer a new and precise weapon for the use of manufacturers of fine chemicals. The ground still to be covered is, no doubt, extensive; but the authors referred to have shown, with selected organic and inorganic substances, that very satisfactory results have followed the application of their technique. Zinc peroxide is an interesting salt on which more work has been done, if I am not mistaken, in the United States than in the United Kingdom: Mr. James L. Toal's data recording the examination of four samples of it carry knowledge a stage further, and give clinicians a better basis for their trials. That so many papers were presented at the Conference in the fourth year of this war is a matter for congratulation and as an indication that it is no meaningless form of words to say that the war is being fought, in the last resort, in order to preserve civilisation.

Xrayser

TRADE NOTES

Leaves, Roots and Barks.—Botanical materials in variety are offered (to wholesalers only) by John Kellys (London), Ltd., 27 Old Broad Street, London, E.C.2.

Drugs and Chemicals.—Dunn Brothers' Successors, Ltd., 1 Booth Street, Manchester, offer lanolin, mag. carb. pond., mag. sulph., stearates, turpentine substitutes, washing powder, and zinc carbonate and oxide.

For Home Guards' Stiff Muscles.—Johnson & Sons, Manufacturing Chemists, Ltd., Hendon, London, N.W.4, suggest Estersil as a readily absorbed application that will be welcomed by Home Guards after taking part in unwonted exercise.

I.C.I. Specialities.—Attention is drawn on another page to some products of Imperial Chemical (Pharmaceuticals), Ltd., Commercial Department, 89 Oxford Street, Manchester, 1, which are obtainable through usual wholesalers. Technical literature will be forwarded on request.

Sandoz Products.—Technical inquiries for the Sandoz specialities, a list of which is given on another page, should be addressed to C. Walker, Sandoz Products, 134 Wigmore Street, London, W.1. The wholesale distributors are Brooks & Warburton, Ltd., 232-40 Vauxhall Bridge Road, London, S.W.1.

Pharmaceutical Chemical Products.—Ward, Blenkinsop & Co., Ltd., Brooklands, Halewood, Liverpool, invite chemists to write for a complete price list of their products, which now include, among others, sulphanilamide and sulphacetamide, nicotinic acid and derivatives, adrenaline hydrochloride, silver salts, menaphthone, phole-drine, mesulphen, etc.

Solid Fuel.—Emergency Products, Ltd., 239 St. Vincent Street, Glasgow, are marketing Kin solid fuel, a rapid-heating, smokeless and odourless tablet fuel, which can be extinguished and used again. The product is packed in containers of twelve tablets, and can be used for any domestic heating purpose indoors or by campers. It is described as ideal for the services.

Aspirin Rub.—Curtailement of supplies of Radian-B aspirin spirit liniment has had to be made by the manufacturers, Radiol Co., 78 Upper Richmond Road, London, S.W.15, in view of the limited amount of ethyl alcohol available. To supplement the restricted supplies of the original preparation the makers offer Radian aspirin rub containing the same active ingredients but with an emulsified cetyl alcohol base, which

is understood to have the approval of the medical profession.

Blackcurrant Syrup.—H. W. Carter & Co., The Old Refinery, Bristol, 2, point out that priority for the limited supplies of Ribena blackcurrant syrup must be accorded, through chemists, to medical prescriptions; young children; and expectant and nursing mothers. Chemists who order small quantities regularly are assisting by enabling others to obtain Ribena from their wholesalers.

Prices of Photographic Apparatus.—The Photographic Dealers' Association has issued a sixty-page list of the latest prices of new "Photographic and Cine Apparatus." This is the second edition of the booklet, which contains the text of Board of Trade Orders regulating the prices of new and second-hand apparatus; a list of accessories covered by the second-hand goods Orders (revised since the first edition); lists of cameras, projectors and accessories, and of cine apparatus, in alphabetical order of manufacturer; present addresses of manufacturers and agents; and an index of trade names. Prices have been completely revised and checked by the manufacturers concerned. Copies of the list, price 10s. each, are available to members of the Association only.

Business Changes

TIMOTHY WHITES & TAYLORS, LTD., have opened a branch at 11 Mutley Plain, Plymouth.

C. & D. QUIZ, NO. 8

1. Which pharmacist left a collection of pictures to the National Gallery?
2. When was percolation first introduced into the B.P.?
3. What firm held its centenary celebrations in the Albert Hall?
4. Who discovered tetanus toxin?
5. What is traumaticin?
6. What is flea seed?
7. What is sal polychrestum?
8. What is frankincense?
9. Of whom was it said, "An Englishman by birth, he lived and worked for all civilised peoples"?
10. What is sal mirabile?

(Answers on p. 166.)

After Sicily . . . ?—Hundreds of tons of repulped waste paper were used in this campaign. Thousands of tons more waste paper will be needed to feed the coming European campaign.

LEGAL REPORTS

Traded as a Chemist.—At Chertsey Police Court, recently, Mrs. A. E. Bower, Oak Parade, Walton-on-Thames, was fined £5 for the unauthorised sale of a poison, £5 for selling poison not labelled in the prescribed manner, and £2 for trading as a chemist when not registered. An inspector gave evidence of purchasing from Mrs. Bower's shop an indigestion mixture and a packet of tartaric acid, both bearing the word "chemist" on the package label. She also purchased some ointment containing yellow oxide of mercury.

Unlabelled Cosmetics.—At Shrewsbury Police Court, recently, Mrs. Maggie Victoria Marlow, 4 High Street, Shrewsbury, was charged with selling on December 18, 1942, by retail, controlled goods (face cream), in or from a container not marked with a label, this being in contravention of the Limitation of Supplies (Toilet Preparations) Order. There were four other charges, ranging from March 12 to July 7, 1943, of supplying hair cream, brilliantine, face cream and henna powder, similarly without a label. Mr. W. A. Button, who prosecuted for the Board of Trade, said that all five offences were precisely the same. It was provided by the Board of Trade that everybody selling toilet preparations must put on the name of the manufacturers. Mrs. Marlow had been warned in December, but the offence had occurred for the fifth time on July 7, 1943, even after summonses had been issued against her. The Bench found defendant guilty. She was fined £2 on the first charge, £3 on each of three other charges, and £5 on that relating to July 7.

"Treated" Razor Blades.—At Slough Police Court on August 6 Charles Abell, The Crescent, Slough, pleaded guilty to ten summonses under the Price Control Order relating to razor blades. For the Board of Trade it was stated that a representative of Gillette Industries, Ltd., read an advertisement which claimed that defendant could sell razor blades giving 50 to 100 shaves per blade. Inquiries were made and Abell was interviewed. He said he had been experimenting with razor blades for years and had invented a new process which extended the life of a blade to fifty or more shaves. He added that he intended to keep this discovery secret. It was in January of this year that he started selling "treated" blades when he started to advertise for agents. His advertisements had brought about seventy inquiries and he had sold

about twenty blades. These blades had cost him 3d. each and he had sold them at 1s. 6d. each or three blades for 4s. The Bench were told that Abell had also stated that he had kept no records; that he had no idea a licence was needed, and that he did not realise there was a price control in existence. His circulars were headed "Bella" Razor Blades—50 to 100 perfect shaves with every blade. Tests showed that the blades sold by Abell had received no treatment likely to lengthen their lives. Defendant was fined £2 on each summons.

NEW BOOKS

Nurses' Pharmacopœia.—H. L. Heimann and Dora Wilson. 5 in. by 3½ in. Pp. 126. 3s. 6d. Baillière, Tindall & Cox, 7-8 Henrietta Street, London, W.C.2. This pocket-sized pharmacopœia and compendium of ward information for nurses is a revised edition containing new sections requested by readers, including radiography, oxygen therapy, biochemical tests, test for sedimentation rate of blood, and the newer drugs. Both student and qualified nurses will find the book extremely helpful.

Guide to the Mechanics of Export Trade.—Institute of Export. 6½ in. by 4 in. Pp. 110. 5s. Institute of Export, Royal Empire Society Building, Northumberland Avenue, London, W.C.2. This little book deals almost exclusively with the technique of export practice and provides a guide that will be extremely useful, especially to newcomers to the export trade. Chapters are devoted to such aspects as market research, advertising, selling prices and terms, selling organisation, dispatch, insurance, documents, landing charges and foreign exchange, etc., and each chapter concludes with a test paper.

The Ophthalmic Prescriber's Codex.—Francis E. Preston. 7½ in. by 5 in. Pp. 176. H. K. Lewis & Co., Ltd., 136 Gower Street, London, W.C.1. This reference book for ophthalmologists is divided into two main sections. Part 1 consists of a formulary of eye preparations, while Part 2 comprises notes on the treatment of eye conditions. In a miscellaneous section information is given on such subjects as posology, vitamin content of foods, local anæsthetics, ophthalmic terms, urine analysis and the sulphanilamides. The book is adequately indexed and should form a useful addition to the library of any chemist whose dispensing includes ophthalmic preparations.

COMPANY NEWS

MANORDISE, LTD. (P.C.).—Capital £1,000. Manufacturers of and dealers in foodstuffs, sundriesmen, chemists, druggists, etc. Directors to be appointed. No R.O. given.

W. C. STREET & SON, LTD. (P.C.).—Capital £2,000. Wholesale or retail chemists and druggists, etc. Sydney C. Street, M.P.S., Arthur B. and Edith E. Street, directors. R.O.: 13 Cornmarket, Louth, Lincs.

A. H. TOD, LTD. (P.C.).—Capital £2,000. To acquire the business of Thomas Hislop Paterson, pharmacist, 128 Newhaven Road, and 201 Ferry Road, Leith. Adam H. Tod, M.P.S., and Robert A. Milne, directors. R.O.: 20 High Street, Peebles.

TECSYN (U.K.), LTD. (P.C.).—Capital £10,000. Manufacturers and dealers in elasto-plastic substances, adhesive products, etc. Walter H. Fawkes, Samuel J. Cox, James Gill and Bertie C. Taylor, directors. R.O.: 8-9 Long Acre, London, W.C.2.

CODELLA SELTZER, LTD. (P.C.).—Capital £1,000. Manufacturers and distributors, wholesale and retail buyers and sellers of medicines and medical preparations, etc. Thomas S. Sutherland, director. R.O.: 7 Bon Accord Square, Aberdeen.

ARKWRIGHT CHEMICALS, LTD. (P.C.).—Capital £1,000. Manufacturers of and dealers in fine, synthetic and other chemicals, drugs, insecticides, essential, vegetable and animal oils and fats, perfumes, cosmetics, etc. George C. Bancroft (director of Bancroft & Partners, Ltd.) and Alfred J. Bancroft, both of Merula, Stoneyfield Road, Old Coulsdon, Surrey, directors. R.O.: Ludgate House, 107 Fleet Street, E.C.4.

ELLIOTTS & AUSTRALIAN DRUG PROPRIETARY, LTD., Sydney, Australia, have entered into an agreement with British Industrial Plastics, Ltd., to form a new company, Beetle Elliott Proprietary, Ltd., for the manufacture and sale in Australasia of beetle resins and moulding powders.

A. BOAKE, ROBERTS & CO., LTD.—Messrs. E. J. Boake and F. M. Roberts are retiring from the position of managing directors. Mr. F. G. Pentecost has been appointed managing director of the company, with Mr. E. E. Boake as assistant managing director. Messrs. E. J. Boake and F. M. Roberts will continue as chairman and vice-chairman respectively.

PARLIAMENTARY NEWS

Export Trade in Branded Goods.—Mr. Morgan asked the President of the Board of Trade whether he would make it the export trade policy of his Department after the war to give full protection and assistance to all forms of branded goods upon which the country's international reputation had been established. Mr. Dalton: Yes, sir.

Protection of Trade Marks.—Major Porter asked the President of the Board of Trade on August 3 what steps he was taking to ensure that, after the war, during which many firms had been concentrated and the operation of their trade marks suspended, there would be a speedy resumption of the use of such trade marks, otherwise they might, if not on the market, be prejudicially affected by imitation evolved in competing countries.

Mr. Dalton: The trade marks of concentrated firms are fully protected under the Defence Regulations, for as long as the concentration continues and for one year afterwards.

Trade with French Africa.—Mr. Heworth asked the President of the Board of Trade on August 3 the articles or products in which mutual trade with North Africa could now be carried on.

Mr. Dalton: By two Orders made July 15 under the Trading with the Enemy Act, commercial and financial dealings with persons and concerns in French North and West Africa are no longer an offence under that Act. But trade with these territories must still be confined to essential requirements and conducted through Government channels. There is no prospect of private trade in the immediate future.

Location of Retail Business Order.—Answering Mr. Thorneycroft, who asked on August 3 whether he would give favorable consideration to the question of continuing in the post-war period the Location of Retail Business Order, 1941—the President of the Board of Trade (Mr. Dalton) said he had invited the views of the principal organisations concerned. The interests of men and women who have been ordered into the Services and essential work who had formerly kept one-name businesses would have been better protected if they had taken the precaution of joining some organisation. The National Chamber of Trade was one of the organisations was consulting, and small shopkeepers would do well to join that organisation, said Mr. Dalton.

COMPANY CHEMISTS AND ASSUMPTION B

following is the text of a memorandum submitted jointly by The Company Chemists' Association and the Co-operative on to the Minister of Health:—

1) We are naturally closely concerned in any plans for the provision of pharmaceutical services to meet the needs of any extended national medical service.

2) We as corporate bodies have always been alive to the necessity and desirability of providing an efficient and up-to-date service, and many of the conditions which it may now become necessary to make of general application have for some years been anticipated and applied by us; for instance, the day and night service, condition and equipment of dispensaries, provision of waiting rooms, etc.

3) We understand it is to be the generally accepted view of the rest of pharmacy that the provision of a complete pharmaceutical service for a projected national medical service can be met by the development and expansion of existing facilities, and to this view we subscribe. To this end we offer full co-operation with the Ministry and all such facilities as our organisations at present provide, and as expanded could provide to give the full and necessary service.

4) To the proposal which has been made for the setting up of an entirely new body under the suggested title of Pharmacy Commission we take serious objection.

5) The existing national services have since their inception been regulated by contract between your Ministry and those providing such services, and any extension thereof becomes merely a question of adjustment of terms of these contracts if and where necessary, and the bringing in of such services as are provided at present in connexion with private dispensing and any other additional ancillary services.

6) As and when required we on our part are willing to negotiate contracts on terms which will provide an efficient extended service to meet any projected extension, and upon terms also which are equitable to all parties.

7) It is submitted that all the necessary machinery exists for the provision of pharmaceutical services to meet any extended national medical service, and

that therefore the proposal to set up a Pharmacy Commission must be due to motives extraneous to that avowed object. This would appear to be borne out by the powers of such a Commission indicated by those putting forward such proposal, and to which we should offer the strongest opposition.

RECENT RESEARCH

Colloidal Silver Sulphonamides.—Colloidal silver preparations of sulphanilamide, sulphathiazole, sulphapyridine and sulphadiazine were prepared by Wruble ("Journal of the American Pharmaceutical Association," xxxii. 3. 80). Silver sulphanilamide darkened rapidly, but the others remained as white or cream-white powders, easily dispersible in water. Solutions of colloidal silver sulphathiazole had a slightly acid pH , and was thus in the range of maximum effectiveness according to recent investigations. Solutions of colloidal silver sulphathiazole were non-irritating in the eye, nasal mucosa and accessory sinuses, and urinary tract of rabbits, and the compound was shown to be no more toxic than similar preparations used by the medical profession for many years. It possessed bacteriostatic properties and was mildly antiseptic, a property not lost in the presence of blood serum.

"Rh" Factor in Blood Transfusions.—Since 1940 the discovery that 85 per cent. of the American and British white population have a factor in the red cells—the Rh factor from its presence in the cells of the Rhesus monkey—has been put to practical use. A variety of jaundice and anaemia, known to occur in babies, was found to affect nearly always babies with the Rh factors in their red cells. Their mothers, on the other hand, were Rh-negative. The jaundice and anaemia were caused in fact because before birth the red cells have passed into the mother's circulation, where anti-bodies to the Rh-positive cells had developed, and these had passed back into the baby's blood and destroyed the baby's red cells. If the baby is given a transfusion with Rh-negative blood, the anti-bodies are soon destroyed and the baby's life is saved. Moreover, if the mother should need a blood transfusion after the baby is born, she should also receive Rh-negative blood. The Emergency Blood Transfusion Service organised by the Ministry of Health now supplies specially tested Rh-negative blood.

NATIONAL PHARMACEUTICAL UNION

MEETINGS of the Executives of the National Pharmaceutical Union and Chemists' Defence Association were held at 4-5 Queen Square, London, W.C.1, on July 28, Mr. T. Heseltine in the chair. Matters connected with the constitution of the Central Pharmaceutical War Committee were discussed, and it was resolved that an application for increased N.P.U. representation on the committee dealing with retail chemists should be submitted. The Executive considered whether expenses incurred by district pharmaceutical war committees should be regarded as Pharmaceutical Committee expenses, but decided that such expenses could not be regarded as a legitimate charge upon the funds of Pharmaceutical Committees. The Executive discussed the relationship existing between the Union and the Proprietary Articles Trade Association, and decided to make representations to the Council of the P.A.T.A. The minutes of a joint meeting on national pharmaceutical service held in London on June 30 were received.

Dispensing Fees

A member submitted a suggested scale of dispensing fees for the preparation and sterilisation of ampoules and sterile solutions to be incorporated in the Union's retail price list, but consideration was deferred until the next meeting to enable further inquiries to be made.

Local Organisation

A memorandum outlining modifications of the local organisation of the Union was submitted by the local organisation officer, and a special subcommittee was appointed to consider this and other matters connected with local organisation. Resolutions concerning matters connected with the proposed new pharmaceutical service and the formation of the proposed Joint Industrial Council for pharmacy were submitted by several branches and considered by the Executive. Resolutions were also received from the S.E. Metropolitan, Cambridge, and Peterborough Branches on retail sales of surgical appliances, carriage on returned empties, new regulations regarding ointment bases, and the "detaxing" of proprietary medicines.

Overalls, Equipment, and Shop-licensing

The Executive decided to renew its application to the Board of Trade for facilities for chemists to purchase dispensing

overalls without surrendering personal clothing coupons. A branch of the N.P.U. having asked for guidance on minimum standards of dispensary equipment in retail pharmacies, the Executive decided to investigate the matter and consider it fully at a later meeting. An inquiry was made by the National Chamber of Trade for the Executive's views on the continued licensing of shops during the post-war period. The Executive felt that adoption of such a policy would be in the best interests of everyone concerned.

Beveridge Benefits

Mr. Noble reported that he had taken part in a deputation to Sir William Jowitt urging that, when any steps were taken to implement sickness and pensions benefit proposals in the Beveridge report, "self-employed" persons should be given no less favourable conditions than employees.

Joint Industrial Council

A draft constitution of the proposed Joint Industrial Council for retail pharmacy was submitted by the Ministry of Labour. A number of alterations were suggested and it was decided that, when a final draft was received from the Ministry, it should be submitted to branches for approval.

Toilet Preparations Order

Several proposed changes in the Toilet Preparations Order, which had been submitted by the Board of Trade, were considered. The proposals had already been discussed with the Board of Trade by Messrs. Hearle and Noble, representing the Union.

War Funds

It was resolved that subscribers to the Air-raid Mutual Assistance Fund should be reminded that a further subscription of 26s. would be due on September 29. A meeting of the War Distress Fund Committee had been held on June 24 to consider the maintenance allowances being made from the fund, and a single new case that had arisen since the previous meeting of the Committee. Payments amounting to £1 weekly, in respect of seven cases, continued. Subscriptions now amount to £23,516.

National Health Insurance

THE SECRETARY reported that the memorandum relating to the proposed pharmaceutical service (see C. & D.

17, p. 62) would shortly be submitted to the Ministry of Health. It was resolved at its next meeting the Central N.H.I. Committee should consider what improvements (if any) were necessary, so far as making N.H.I. arrangements were concerned, to provide a complete and satisfactory service that can be incorporated in Government's proposals for a national medical service. The Executive also passed the following resolution that had been passed by the Central N.H.I. Committee:—

"That this Committee deprecates references in the trade Press as to the necessity for sweeping improvements in chemists' shops in view of the standard of the service given hitherto, and endorsed by the Annual Reports of the Ministry of Health."

Matters connected with delayed payment of chemists' accounts, elimination of waste in connexion with spread plasters, and any closing rotas were also dealt with.

VITAMIN PRODUCTS AS MEDICINES OR FOODS

The Board of Pharmacy of the State of New Jersey has adopted a policy expressing its attitude to the supply of vitamins and vitamin products by other than registered pharmacists. The following is the text of its principal statements:—

Scientific research has shown that vitamins and certain mineral substances are necessary factors in the preservation of health. Normally, both vitamins and minerals are acquired in the daily diet. It is only when the diet is defective and foods are lacking in their normal vitamin and mineral content that it becomes necessary to consider supplementing them artificially. Many diseases are caused by vitamin deficiencies. The treatment of such diseases requires vitamin concentrates that will correct the specific deficiency. To determine vitamin deficiencies in the first instance and to choose the diseases which result from these deficiencies and to prescribe treatment for them is a medical problem. Only licensed physicians may diagnose disease and prescribe treatments. When a disease has been diagnosed, and the physician has determined that it is due to a vitamin deficiency . . . the vitamins prescribed are prescribed. When vitamin diseases are treated by correcting the diet, either through the use of proper foods or through the proper preparation of foods previously used, or by fortifying or enriching foods artificially with vitamin extracts, the treatment can be considered free from drugs.

Chemists' Defence Association

THE SECRETARY reported that settlements had been effected in three outstanding cases, involving payments of £12, £13, and 7s. 6d. respectively. Five new cases were left in the hands of the secretary for negotiation and settlement, two of them being of an unusual character involving somewhat heavy settlements. A summons that had been brought against one member under the Pharmacy and Poisons Act for the sale of a Part I poison "whilst not recognised as an authorised seller," although his premises were registered, was dismissed. The question of an appeal is pending. A summons against another member under the Food and Drugs Act for a sale of talcum powder of a composition prejudicial to the purchaser and labelled with a misleading description, had been dismissed on payment of costs, the manufacturer being fined £20 and £21 costs. One free analysis had been undertaken.

Findings of Drug Administration

The fact that vitamins occur normally in foods but are prepared artificially in the form of concentrates has led to controversy as to whether vitamin preparations should be classified as foods or as drugs. . . . The Food and Drug Administration, after extensive hearings and study, has determined the following facts, among others:—

Deficiency in the intake of any essential vitamin, mineral, or other dietary property produces pathological conditions known as a deficiency disease, whereas intake of a certain minimum quantity of such substance prevents the onset of such conditions.

The quantity of a vitamin, mineral, or other dietary property necessary to prevent a deficiency disease is usually less than the quantity necessary for the effective treatment of that disease.

The quantity and the duration of administration of such a property for the correction of such disease may differ under different conditions.

Purchasers in general are unaware of the quantities of dietary constituents or the duration of their consumption necessary for the effective treatment of deficiency diseases.

The terms "vitamin B₁" and "thiamine"; "vitamin C" and "ascorbic acid"; and "riboflavin," "vitamin B₂" and "vitamin G," are synonymous.

Deficiency in the intake of vitamin A produces the pathological conditions known as nutritional night blindness and as xerophthalmia; of vitamin B₁ the condition known as beriberi; of vitamin C the condition known as scurvy; of vitamin D the

conditions known as rickets and osteoporosis; and of riboflavin the condition known as ariboflavinosis.

The minimum daily requirements for such vitamins and minerals in the human diet are the quantities necessary for the prevention of such deficiency diseases.

The requirements of different persons for most of the essential vitamins bear a relationship to body weight, which in turn bears a relationship to age groups.

Purchasers generally do not know the quantity of vitamins and minerals needed to supply their minimum daily requirements.

Because of variations in body weight and other factors, the minimum daily requirements of individuals for vitamins vary, even among persons in the same age groups; but

of each vitamin contained in the preparation and the amount of each such vitamin contained in the product, and if it is not held out for the treatment of any disease but merely as a food accessory, the Board of Pharmacy of the State of New Jersey will not classify such product as a drug provided the label of such product bear the additional statement: "Not for Medicinal Use."

Products Classified as Drugs

On the other hand, any vitamin preparation which is held out to be a treatment for any deficiency disease or for the correction of any symptoms of disease or for the

Daily Vitamin Needs by Age Group

	Vitamin A	Vitamin B ₁	Vitamin C	Vitamin D	Riboflavin
Infants	1,500 U.S.P. units	0.25 mgm.	10 mgm.	400 units, except under certain conditions	0.5 mgm.
Children more than one but less than six years old	3,000 units	0.5 mgm.	20 mgm.		Not yet established
Children six to twelve years of age		0.75 mgm.			
Persons more than twelve years old	4,000 units	1.0 mgm.	30 mgm.		2.0 mgm.

in the cases of vitamins A, B₁, C, D, and riboflavin the variation within any age group is of such narrow range that a minimum daily requirement for any such vitamin can be prescribed for different age groups, and the ingestion of the quantity so prescribed will prevent any clinically significant manifestation of the deficiency disease characteristic of deficiency of such vitamin.

Preparations Accepted as Foods

It is apparent from the foregoing that in order for an individual to determine whether or not he should consume any vitamin product, he must determine first of all whether the normal daily intake of vitamins from the foods which are eaten is sufficient, and secondly, whether he should add to his daily vitamin intake without medical advice. In order to determine this, he must know what the normal vitamin intake should be for the specific individual and what vitamins are commonly found in the food consumed. Only with such knowledge is a layman in a position to supplement his diet intelligently with vitamin products offered for sale. If a vitamin product is marketed only for the purpose of supplementing the diet and the label supplies adequate information as to normal intake

prevention, mitigation or cure of disease either by direct statement or by inference must be considered a drug or medicine within the meaning of the Pharmacy Act and, as such, it may be sold only under the supervision of a registered pharmacist. The public is urged to remember that vitamins in concentrated form are unnecessary to the individual receiving a properly balanced diet and that proper food is the best source of necessary vitamins. It is up to a physician to decide if and when vitamins are needed for the treatment or prevention of disease, and in such cases the concentrated vitamins in the usual capsule form in proper dosage may be prescribed, and, of course, in such cases they are drugs.

Answers to Quiz No. 8.—The answers to the questions given on p. 160 are:—1. Jacob Be 2. 1864. 3. Robinson & Sons, Ltd., of Chesterfield, July 14, 1939. 4. Behring and Kitasato 1890. 5. Liqueur Gutta Serena, B.P.C. 6. Pylium. 7. Potassium sulphate. 8. Olibanum, oleo-resin from *Boswellia Carterii* and other species of *Boswellia*. 9. Daniel Hanbury 10. Glauber's salt.

PHARMACY UNDER THE AXIS

THE following notes on matters of pharmaceutical interest have been taken from German, French, Italian and other newspapers, as well as from other sources.

Hungary

Books for Soap.—Several large soap firms are reported to have disguised their products as books in order to escape soap restrictions. The case against them opened recently before the Supreme Court at Budapest, but it is now learned that the trial has been cancelled to enable further inquiries to be made.

Occupied Russia

Medicinal Plants.—It is reported from Kiev that the exploitation of the spices and medicinal plants of the Ukraine, valuable for German medical supplies, is being intensified this year. The total surface dedicated to the cultivation of those herbs is stated to be seventy times as great as in Germany.

Belgium

Chemists' Fees.—The "Bulletin de l'Ordre des Pharmaciens" recently published membership fees for 1943. These vary as follows according to business done: 600 francs for chemists receiving ration coupons for less than 300 kilos of goods; 800 francs for those between 300 and 600 coupons; 1,000 francs for those between 600 and 1,000 coupons; and 1,200 francs for all over 1,000 kilos. A reduction of 5 per cent. is allowed to all chemists for each dependent child. The fee of 600 francs is reduced to 300 francs if the chemist can provide documentary proof that he has not purchased goods for more than 50,000 francs during 1942. The fee for assistants is 100 francs.

No Insulin.—The "Bulletin" recently stated that insulin is scarce and there is also a shortage of tubes. Consequently, it is stated, diabetics will soon be unable to obtain insulin. Chemists are asked to do their utmost to collect tubes.

Soap Shortage.—"Notre Combat" recently revealed a serious shortage of soap. The paper wrote that the Central Office of Industrial Fats has decided to manufacture a special green soap which will be sold only for the use of children. Other soap, with a reduced fat content, will contain a variety of Belgian filling material. The announcement adds that the new soap is not of the quality to which the public is accustomed, but it has adequate lathering and detergent

properties. Nevertheless, it is recommended that users should rinse carefully after using the new soap in order to prevent the particles of the filling material from sticking to the skin and soiling the towel.

Italy

Bay Berries for Soap Oil.—"Sole" of Milan points out that the increased cultivation of bay plants, the berries of which produce 30 per cent. of aromatic fixed oil used medicinally, will help to produce toilet soap of high cleansing quality, without having to resort to the addition of oils of foreign production. The Ministry of Agriculture has, therefore, ordered the growing of bay trees (*Laurus nobilis*). At present production is limited to a few hundred quintals of oil.

France

The Perfume Industry.—The situation in the perfume and cosmetic industry was recently discussed in "Le Mot d'Ordre." This journal contends that there is an abundance of calcium carbonate, talcum and kaolin in the soil, but admits that transport problems are strangling the industry. Water is being substituted for alcohol whenever possible. Glassware, packing cases, wire, nails and wrapping paper are almost non-existent. Nevertheless the industry is struggling to carry on as it is claimed that after the war the export of perfumes will be one of the most important French activities.

Talc Production.—Radio Paris recently announced that as a result of the efforts of a group of young men belonging to a youth labour camp at Tignac, France has remained in the first rank of talc-producing countries. These youths volunteered to replace the Spanish and Portuguese workers who, until the war, operated the talc mines of Luzenac.

Drug Shortage.—The "Nouvelliste de Lyon" reports that owing to a serious drug shortage and the difficulty of obtaining supplies, the Comité d'Organisation de Produits Chimiques has regulated the sale of patent medicines.

Publicity for Priority Medicines.—Publicity for patent medicines is to be controlled, according to the paper "L'Effort." A special tribunal will consider all leaflets, posters, etc., if they contain more than the name of the medicine, its composition and the maker's or seller's name and address. All literature, "copy" or matter

designed to attract the public must be subjected to strict control.

Inspectors.—A council under the presidency of Dr. Aublant has been created by the Ministry of Health to organise the inspection of pharmacies. All difficulties which might arise between chemists and inspectors must be submitted to the council. "L'Effort" also states that owing to scarcity a chemist may refuse to serve a customer with drugs or medicines.

Grasse Helps Food Front.—Since the German defeat in Tunisia, the occupation of Madagascar and the blockade of the Orient, the French perfume industry waits without hope for the arrival of anise, vanilla, etc., indispensable in the manufacture of its products. Perfume chemists, therefore, have placed themselves at the disposal of pharmaceutical laboratories and manufacturers of foodstuffs. Essences are extracted from official herbs, while flavouring for juice and pulp is extracted from fruit. Dyes are being made for the foodstuffs industry.

Pharmaceutical "Ersatz" Products.—Bassin, director of the Comité d'Organisation des Produits Pharmaceutiques, in an interview with "Paris Soir," declared that France has sufficient supplies of essential medicines, production having increased by 40 per cent. in the last two years. Substitutes were used in certain cases, while distribution of vital products was severely enforced. In order to check the threatening development of noxious and ineffectual patent medicines, the committee's authorisation is compulsory for all new products. The shortage of insulin was counteracted by a strict control of prescriptions, sufficient quantities being thus available for the most serious cases. A synthetic equivalent of quinine has not been found, but stocks are stated to be sufficient for two years. Synthetic substitutes for lanolin, caffeine and theobromine have been invented. Under the law of September 11, 1941, new specialities are compulsorily submitted to analysis by the Control Committee, which rejected 50 per cent. in 1942. In the distribution of raw materials priority is given to dispensing chemists, it being considered that doctors' prescriptions are more important than patent medicines, which are classified according to their usefulness.

Rumania

Standard Soap.—The Minister of Economics has decreed that only four types of standard soap may now be manufactured.

All stocks of tallow soap are to be confiscated.

Insulin Rationing.—Because of the insulin shortage the Ministry of Health has ordered all diabetics to register so that insulin may be rationed. Meanwhile, it is reported in the "Bukarester Tagblatt" that three million units of insulin in powdered form or in phials has been confiscated and handed over to the Ministry of Health.

Germany

New Preparations.—It is officially reported that ninety-five new pharmaceutical preparations have been evolved in Germany during the last few years. Medicaments have been tried out against spotted typhus, cerebro-spinal meningitis, diphtheria and other diseases. It is claimed that cures have been achieved in up to 95 per cent. of cases. A new method is also reported for producing vitamin C from pine needles.

Pharmacists Confer.—German pharmacists recently held a conference to consider questions relating to the profession. The conference was satisfied that there was no shortage of medicines in Germany. Plans for the future were discussed, particularly concerning the studies of young chemists, increased number of women assistants, the employment of foreign chemists, air attacks on chemists' shops and finally a plan for the future of the industry.

Bulgaria

Supply Shortage.—Sofia reports that the Public Health Directorate will shortly conclude an agreement with Germany for the delivery of Bulgarian medicinal herbs and other raw material in exchange for German drugs and patent medicines of which there is a shortage.

Insulin Manufacture.—Bulgaria is to start making insulin. Manufacture will commence in August and the annual output is expected to reach from eight to ten million units.

INFORMATION DEPARTMENT

Postal or telephone information in regard to the following will be appreciated:—

Exotrope ampoules (makers).

Chemistry sets for schoolboys (suppliers).

CLOSED ON SATURDAYS.—Advertisers and subscribers are reminded that owing to war conditions the Head Office of THE CHEMIST AND DRUGGIST, 28 Essex Street, London, W.C.2, is closed on Saturdays until further notice. Urgent instructions relating to advertising and subscriptions should be sent to the C. & D., 17 Argyle Street, Bath, Somerset.

PERSONALITIES

MR. A. W. GEDGE, M.P.S., Galen House, Worcester Road, Malvern Link, has retired from the Worcestershire Pharmaceutical Committee, of which he has been chairman twenty-one years. He is succeeded as chairman by COUNCILLOR PERCY HARRIS, M.P.S., 25 High Street, Droitwich, the son of the proprietor of a business acquired by his father, the late Councillor Stephen Harris, over seventy years ago. Councillor Harris qualified in Edinburgh after being apprenticed to his father. He is a member of the Worcester County Insurance Committee.

MR. A. J. ESLEY, M.P.S., managing director of Timothy Whites & Taylors, Ltd., chemists, is the author of a letter in the Times, August 10, on the subject of "The Use of Man-power." Mr. Esley writes: "For two days this week I have been sitting as a member of a central tribunal. As a result of our deliberations the Government was withdrawn from 236 appeals, with the result that 184 prosperous and actively operating businesses will be closed. The large majority of cases these were owned or managed by men of 30 to 35 years of age, being young men who have invested their all in their business, whether of money or labour. . . . but we who are responsible for this work are entitled to ask, not what has been promised to be done, but what is actually being done now about the combination of young Civil servants. . . ."

MARRIAGES

Golden Weddings.—MR. and MRS. SHELLEY, High Street, Kelvedon, Essex, celebrated the fiftieth anniversary of their wedding on August 7. Mr. Shelley started in business in Kelvedon sixty years ago as a druggist. A few years ago he transferred the business to his son, Mr. P. B. Shelley, M.P.S., 25 Newtown, Kelvedon, but continues, at twenty-seven years of age, to take an active part in it himself.

MR. JOHN CALVERLEY, chemist and druggist, 2-Cark Road, Keighley, and Mrs. Calverley celebrated their golden wedding on August 7. Mr. Calverley, who is seventy-six years of age, was in business as a chemist at Beeston Hill, Leeds, for forty years, returning to Keighley when he retired some eight years ago. He endowed a chemistry prize at Keighley Grammar School, of which he is an old boy.

BIRTHS

CHAMINGS.—At the Radmoor Nursing Home, Loughborough, Leics, on July 28, Rachel (*née* Macfarlane), the wife of Arthur Chamings, B.Pharm., Ph.C., Westwood, Quorn, Leics, of a daughter.

WILSON.—At Norwood Nursing Home, Glasgow, on August 1, Johann Grierson, the wife of W. T. Wilson, M.P.S., 148 Kingswood Drive, Glasgow, of a son.

DEATHS

BELL.—Recently, Mr. William Edward Bell, chemist and druggist, Fairfield, Bernard Road, and formerly of Pier Plain, Gorleston-on-Sea, aged seventy-four.

GREEN.—At 8 Madison Avenue, Cathcart, Glasgow, on July 31, Mr. Benjamin Green (B. Green & Co., druggists' sundriesmen).

LISTER.—Recently, Mr. George Harry Lister, M.P.S., Huddersfield Road, Buckton, Stalybridge. Mr. Lister passed the Minor examination of the Pharmaceutical Society in 1905.

MILLER.—Recently, Mr. William Henry Miller, M.P.S., 22 Bowditch Road, Spalding, aged eighty-three.

POWELL.—Recently, Mr. Samuel John Powell, chemist and druggist, 3 York House, Theobald's Road, London, W.C.1, and formerly of Devereux Court, W.C.2, aged eighty-four.

TAYLOR.—On August 4, Mr. Norman J. Taylor, Ivy Cottage, Worsley, Manchester, representative in East Lancashire for Macleans, Ltd., London, W.

RECENT WILLS

MR. JOHN WILLIAM BYGOTT, Ph.C., 67 Milford Drive, Levenshulme, Manchester, who died on March 19, left £109.

MR. FRANK STURDY SINNATT, 4 Hill Side, Crooms Hill, S.E.10, chemist, who died on January 27, left £9,245, with net personalty £2,194.

MR. PERCY LE BLANC NEWBERY, 22 Branksome Wood Road, Bournemouth, who died January 29, left £1,729, with net personalty £1,467.

MR. ARTHUR OWEN BENTLEY, Ph.C., 3 Glebe Street, Beeston, Notts, head of the School of Pharmacy at University College, Nottingham, who died on March 26, left £2,985, with net personalty £2,615.

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Official organ of The Pharmaceutical Society of Great Britain, The Pharmaceutical Society of Northern Ireland, The Chemists' and Druggists' Society of Scotland and of other Chemists' Societies in the Empire

L. CXL AUGUST 14, 1943 NO. 3314

The fact that goods made of raw materials in short supply owing to war conditions are advertised in this paper or described in its editorial columns should not be taken as an indication that they are necessarily available for export.

The Medical Profession and the Beveridge Report

At a special meeting of the Council of the British Medical Association, held on July 28, 1943, the report of the Representative Committee on the Beveridge Report was considered. The Representative Committee was set up to explore, in discussion with the Minister of Health or his officials, problems raised by Assumption B of the Beveridge Report and to report and put forward views which were believed to be those of the majority of the profession." On the Ministry's ruling the discussions were confined to "the consideration of a comprehensive health service available to the whole community." The report, which is stated to be a statement of principles for consideration, as the Representative Committee was prevented, under seal of confidence with the Minister, from indicating the nature of the conversations that had taken place, has been amended in certain details by the Medical Planning Commission and further amended and finally adopted by the Council of the British Medical Association preparatory to discussion by local Divisions and to presentation at the Annual Representative Meeting.

The report now issued ("British Medical Journal," August 7, Supplement, p. 19) consists of fourteen recommendations on points of principle, the first four of which review and reaffirm statements previously issued by the British Medical Association on the improvement of the nation's health.

Decisive Recommendations

The next two recommendations are important and decisive and are as follows:—

Recommendation E: That the State, while assuming responsibility for the organisation and provision of medical services, should not assume control of doctors rendering individual or personal health service. It is not in the public interest that the State should convert the medical profession into a salaried branch of central or local government service.

Recommendation F: That free choice of doctor should be preserved as a basic principle of future health services, and no administrative structure should be approved which does not both permit and encourage such free choice.

On the subject of organisation and control of a comprehensive health and medical service the Report states: "The Minister to whom this central administrative body is responsible should be advised on medical matters, including personnel, by a medical advisory committee, representative of the medical profession. Locally, new administrative bodies responsible to the central authority should cover wide areas and should be representative, directly or indirectly, of the community served and, in appropriate numbers, of the local medical profession and voluntary hospitals. They should be advised on medical matters, including personnel, by local medical advisory committees representative of the local medical profession. These administrative changes should be regarded as foundation changes to be completed before other changes are initiated."

An Extension of N.H.I.

Pending the consideration and completion of the foundation administrative changes, it is recommended that "Assumption B should be satisfied by an extension of National Health Insurance to include dependants of insured persons and others of like economic status, and to cover

consultant and specialist services and laboratory and hospital facilities as well as general practitioner service. Those persons with incomes above the existing limits could, if Parliament decides to make the service available to every member of the community, be permitted to become voluntary contributors to the extended service. A reconstruction of insurance committees would be necessary."

On the subject of health centres the Council's report states:—

"Both the Representative Committees and the Council considered the desirability of basing general practice on health centres in areas of sufficient population. The Council is of the opinion that before any policy on the subject is formulated, there should be a preliminary period of controlled scientific experiment in health centres and group practice. The experiments should include centres of different types—e.g., communal surgeries, diagnostic centres, and cottage or home hospitals—and, in the case of group practice, they should include different methods of distributing the aggregate emoluments collected on a capitation basis by the co-operating general practitioners. There should be initiated, by arrangement and agreement between the Government and the profession, organised experiments in group practice, including health centres, of different kinds. Future developments in group practice should depend upon the results of such clinical and administrative experimentation."

Like the pharmacists, the doctors have now put on record their views and they will no doubt receive due consideration by the Minister of Health. It will be noted that, in some respects, the views of the two professions, as expressed to the Minister of Health, are similar. The next development will be the issue of the Government's White Paper, promised for the early autumn.

Multiple Shops Statement

On p. 163 of this issue we publish the text of a memorandum on Assumption B of the Beveridge Report submitted jointly by The Company Chemists' Association and the Co-operative Union to the Minister of Health. This statement confirms the opinion expressed in the memorandum submitted by the Council of the Pharmaceutical Society of Great Britain and the

Executive of the National Pharmaceutical Union, and supported by other pharmaceutical organisations (*C. & D.*, July 17 p. 62), that "it is possible, by developing and expanding the existing facilities, to provide a complete pharmaceutical service for the projected national medical service," and both statements offer full collaboration with the Ministry to this end. The Multiple Shops Statement, however, take "serious objection" to the proposal to set up a Pharmacy Commission to develop and control the scheme.

TRADE MARKS

(From "*The Trade Marks Journal*," July 28)

- "UTILEX"; for chemical products for increasing the sugar content of food products (1). By Economic Utilities, Ltd., 56-58 Whitecomb Street, London, W.C.2. 622,977 (Associated).
- "CLEMMEL"; for perfumery, essential oils and non-medicated toilet preparations (3). By R. & W. Products, Ltd., Derwent House, North Parade, Matlock Bath, Derbyshire. 622,497.
- "HYPRO"; for soaps, detergents and pumice stone (3); for deodorising tablets, disinfectants and medicated toilet paper (5), and for toilet articles (21). By Hygiene Products Ltd., 29 Great St. Helens, London, E.C. 622,569-71 (Associated).
- "EVERGLADES"; for non-medicated toilet preparations and cosmetic preparations (3). By Crystal Products Co., Ltd., 7 Stanhope Terrace, Lancaster Gate, London, W. 622,966.
- "WRIGHT'S COAL TAR SOAP" with device of two hands with cake of soap on shield and words "Pro Integritate Cutis"; for perfumed toilet soaps (3). By Wright, Layman & Umney, Ltd., 44-50 Southwark Street, London, S.E.1. 623,102 (Associated).
- "TEEPOLEUM"; for emulsifiable mineral oil for use as insecticides, larvicides and fungicides (5). "ROTANE"; for insecticide larvicides and fungicides (5). By Technic Products, Ltd., 29 Great St. Helens, London, E.C.3. 623,350 (Associated) 623,349.
- "SESDRANE"; for draining tubing for surgical, medical, dental and veterinary use (10). By Surgical Equipment Supplies, Ltd., Westfields Road, Western Avenue, Norwood, Acton, London, W.3. 623,236 (Associated).
- "FAXTENDER"; for substances in the nature of rubber manufactured from sulphurised vegetable oils, and articles made therefrom (17). By Typke & King, Ltd., Crown Chemical Works, Birtley, Durham. 622,944.
- "COMPERE" and "THE PLAQUE"; for non-alcoholic beverages and syrups for making beverages (32). By W. W. Brown, Ratcliffe Terrace, Edinburgh. 622,788-90

MEDICAL ABSTRACTS

Interference with Iron Absorption.—The amount of iron in the serum of healthy subjects was found by McCance and others ("Lancet," July 31, p. 126) to vary considerably from time to time. After administration of large doses of soluble iron taken with a breakfast of white bread and jam, there was a rise in the level of iron in the serum, generally greater with ferrous than with ferric salts. When sodium phytate was incorporated into the bread and taken at the same time as the iron salt, the full amount of iron in the serum was prevented. Disodium hydrogen phosphate had a similar but less marked effect. Both ferrous and ferric salts were demonstrated to be less effective than the corresponding phosphates in raising the pH of the intestine.

Iron Deficiency in Anæmia.—Davidson and others ("British Medical Journal," July 24, p. 95) examined the hæmoglobin levels of 3,338 persons in Edinburgh in 1943. The persons examined included infants and pre-school children (birth to four years); 917 municipal primary and private schoolchildren (five to twelve years); 518 adolescent males and females (thirteen to nineteen years); 620 adult males and females (twenty to fifty-four years); forty-five multiparous females, and 570 pregnant women. The figures obtained are compared with average normal standards for males, 95 per cent. \pm five, and for females, 100 per cent. \pm five, on a hæmoglobin correction factor supplied by the National Physical Laboratory. The authors consider that the evidence afforded by the examination supports the contention that such percentage standards can be obtained even under war-time conditions, and that 50 to 70 per cent. of the females in different groups examined had figures 50 per cent. or higher and the average hæmoglobin of 382 males was slightly over 100 per cent. "If hæmoglobin levels of this magnitude are found after nearly four years of war, with concomitant dietary restrictions and difficult working conditions, then there is reason to believe that average hæmoglobin levels are even higher than those proposed by E. Jones might obtain in days of peace." The incidence of "clinical" anæmia is found to be insignificant in female students and nurses, and to vary from 6.6 per cent. in schoolgirls to 21 per cent. in female factory workers. The incidence of anæmia in 360 adolescent females and 450 adult females was 12 per cent. and 7 per cent. respectively,

approximately 60 per cent. of the total thus having a hæmoglobin value greater than 90 per cent. The great majority of persons suffering from "clinical" anæmia made no complaint of ill-health and were apparently carrying out their work in school, factory, or at home, in a satisfactory manner.

Bacterial Pyrogen.—The name pyrogen was given to a product found by a United States worker to be excreted from certain water-borne bacteria, with rise in temperature, following the intravenous injection of large volumes of perfusion fluids. The need for a standard method of testing intravenous solutions for freedom from pyrogenic substances led to a collaborative study of the problem by the laboratories of fourteen United States manufacturers and of the Food and Drug Administration and National Institute of Health. A method of test was developed, and now Welch and others ("Journal of the American Pharmaceutical Association," xxxii. 3. 65) have described a method of preparation of the pyrogen used, together with certain immunological studies. The thermogenic substances derived from strains of *Pseudomonas* are found to be non-antigenic, and solutions of pyrogen derived from *Pseudomonas* strains to contain a precipitinogen which is not associated with the thermogenic effect. The precipitinogen and thermogenic substances may be separated by chemical means or by adsorption with precipitating sera produced with the stock pyrogen solution. The collaborative study was made on material of such strength that the injection of 3 c.c. per kilo of animal would almost certainly produce a strong reaction but would rarely prove fatal. If sensitisation could occur, the procedure should have been able to demonstrate such a phenomenon, but no evidence of this was received from any of the laboratories participating. It seemed unlikely, therefore, that sensitisation resulted from pyrogen administrations of the strength used, or from weaker concentrations. Standard conditions for making the tests have been framed, and it is suggested that further work should be done to determine the lowest concentration that will give a positive reaction; the sensitivity of the test animal compared with man; how long a rest period should be allowed between tests; and whether, with weak pyrogens, animals should be used in repeated tests.

PHARMACEUTICAL SOCIETY OF GREAT BRITAIN

THE following candidates have satisfied the examiners in the Chemist and Druggist Qualifying examination held in Scotland in July:—

Allen, Dorothy M., Birmingham
 Brennan, James, Aberdeen
 Bryan, Geoffrey, York
 Buick, Freda M., Aberdeen
 Burnett, A. G., Inverurie
 Carey, Andrew, Glasgow
 Chalmers, J. G., Portknockie
 Churchill, J. L., Smethwick
 Close, Florrie, Morpeth
 Collins, Barbara M., Edinburgh
 Connell, N. G., Huntly
 Cowin, R. S., Liverpool
 Davidson, J. M., Edinburgh
 Davies, Frederick, Durham
 Dobbin, T. C., Durham
 Edwards, Daniel, Aberdeen
 Falconer, W. G., Edinburgh
 Ford, Betty, York
 Fraser, H. R., Aberdeen
 Fraser, Isabella S., Forfar
 Gellatly, G. A., Greenock
 Gray, C. T., Edinburgh
 Henderson, J. R., Montrose
 Hogg, W. J. Y., Galashiels
 Hughes, G. B., Edinburgh
 Hunterman, Morris, Leeds
 Jackson, Nora, Bradford
 Jones, K. L., Liverpool
 Kinshuck, Morris, Liverpool
 McBrayne, Isobel H., Dundee

MacDonald, Alexander, Aberdeen
 MacDonald, Isabella M., Aberdeen
 Mackintosh, George, Glasgow
 Macphail, Effie, Aberdeen
 Masterton, C. P., Kirriemuir
 Nicholson, H. L., Sunderland
 Noble, C. H., Bradford
 Ottolini, J. G., Leeds
 Patterson, W. F., Sheffield
 Reynolds, E. M., Birmingham
 Rigby, J. R., Rotherham
 Rogers, E. J., Birmingham
 Ross, D. J., Aberdeen
 Rutter, K. R., Leeds
 Shackleton, John, Halifax
 Smith, Dorothy M., Kidderminster
 Snowdon, Eleanor J., S. Shields
 Steinberg, M. A., Liverpool
 Stern, J. H., Sunderland
 Stewart, Jean R., Edinburgh
 Stratton, Dorothy M., Coatbridge
 Stringfellow, Roy, Liverpool
 Tate, R. G., Gateshead
 Triston, J. C., Edinburgh
 Tweedy, Robert, Ashington, Northumberland
 Walker, R. R., Aberdeen
 Walton, J. G. M., Durham
 Watson, Alec, Liverpool
 Watson, A. A., Edinburgh
 Wheeler, Stanley, Birmingham
 Whitter, Bertha, Wigan
 Wilkinson, Norman, Liverpool
 Womersley, Maud, Leeds
 Wood, D. M., Lissiemouth
 Wright, G. C., Sheffield

FORWARDING BY RAIL

by Graham Saville

MANY alterations have been introduced in railway dispatching arrangements to meet war-time conditions, and it is essential that all engaged in forwarding goods should have a clear understanding of these to ensure efficient working.

To assist in overcoming blackout difficulties labels should be white and typed or written in black ink. A labelling regulation concerns consignments when forwarded in less than truck loads. When the consignment consists of one to ten packages all must be fully labelled; when there are eleven to one hundred packages one in every five, with a minimum of ten; and if over a hundred packages one in every ten must be labelled, with a minimum of twenty. In addition all packages not fully labelled must be marked with the consignee's name and destination town, e.g. Newman, Newcastle; or Evans, Cardiff. In spite of paper shortage it has been agreed by the Ministries of War Transport and Supply that it is imperative to con-

tinue the use of labels on goods sent by rail.

It is also necessary to indicate on the consignment note and labels the letter and number of the postal district (or where the postal district is indicated by a number alone, the number of the postal district when the consignee's premises are situated in certain areas. The areas concerned are Birmingham, Brighton, Bristol, Edinburgh, Gateshead, Glasgow, Hove, Leeds, Liverpool, London, Manchester, Newcastle-upon-Tyne, Salford, and Sheffield.

Another war-time development which imposes certain restrictions on the forwarding of goods to various stations is nominated loading. Traffic is only accepted by specified stations on set days; for example, station "A" may forward to "W" and "X" on Tuesdays and Thursdays and to stations "Y" and "L" on Wednesday and Fridays. As goods tendered on wrong days will not be accepted by the railway companies, the trader should watch care-

lly any developments affecting his own area.

Closely allied with railway transport arrangements is the lodging of complaints and claims. To meet the special war-time conditions the railway companies allow certain relaxations in the time limits laid down by the statutory conditions and consider complaints and claims when notified within rather longer periods. With cases of partial loss consisting of damage, pilferage, deviation, misdelivery, delay or retention, whereas the previous period in which the written complaint had to be made was three days this is now six, and a claim must be lodged within ten days instead of seven. When there is the loss of a whole consignment or of a whole package or packages forming part of a consignment, the previous times for complaint and claim of fourteen and twenty-eight days have been extended to twenty-eight and forty-two days respectively. All complaints should be in writing and sent to either the forwarding or delivering station or to the head office of either the forwarding or receiving companies.

Three Kinds of Risk

In the forwarding of goods a very important factor is the "risk" at which they are consigned. There are three kinds of risk which normally cover such traffic: company's risk, owner's risk, and damageable goods not properly protected by packing. With certain traffic the trader has the choice of consigning at company's risk or owner's risk. With the latter traffic the trader obtains a concession in charges but has to accept the bulk of responsibility for damage, the railway company being liable only when such damage has been caused by their wilful misconduct. The onus to deliver the goods rests with the railway company even with owner's risk traffic unless they can prove that loss or pilferage is not due to their negligence.

The other set of conditions, that of damageable goods not properly protected by packing, is applicable to traffic which the railway companies are not willing to accept under ordinary company's risk conditions unless they are packed in accordance with certain regulations. With goods forwarded under these conditions the trader has a right to expect them to be delivered but a claim for damage will not succeed unless it can be shown that the damage would have occurred had the goods been properly packed and in circumstances which would have made the railway com-

pany liable under ordinary company's risk conditions.

Consignment Notes

Particular attention should be paid to the compilation of consignment notes, as during war-time much inexperienced staff has to be used for such work. The sender must be careful to give the following details: Full names and addresses of sender and consignee; station or place of destination; such particulars as are necessary to enable the railway company to calculate the charges payable (nature of the goods, gross weight and number of packages); whether the consignment is "To wait order" at a particular station. In order that the trader may obtain the benefit of the lowest charges, he should be careful to give an accurate description of the goods being dispatched, and it is also advisable to endorse the consignment note "Part lot where applicable."

The Railways (Carriage Paid) Direction, 1942, which operated from January 1, 1943, makes it necessary for all traffic except those carried under agreed charge agreements to be forwarded "carriage paid." Whilst the consignor is responsible for paying the carriage charges at the forwarding station it does not necessarily involve prepayment. To avoid having to deal with a miscellaneous assortment of railway accounts it is advantageous to arrange credit facilities with the railway companies.

INSURANCE ACT DISPENSING

Surrey.—The following is a summary of chemists' accounts with the County Insurance Committee for the years 1942 and 1941:

	1942	1941
Number of prescriptions	1,529,624	1,418,244
Ingredient prices ..	£45,391	£43,178
Total value ..	£79,301	£69,570
Average total of insured persons ..	429,249	406,689
Average cost per prescription ..	12.4d.	11.8d.
Average cost per insured person..	44.3d.	41.1d.

On May 31 there were 639 chemists' shops, owned by 389 contractors, on the Surrey panel.—The Ministry of Health has decided to withhold £2 2s. from the remuneration of a chemist who had refused to make a refund to a patient for a bottle returned. The amount the Pharmaceutical Committee had recommended withholding was £5. (See also *C. & D.*, June 19, p. 624.)

CACTOBLASTIS CACTORUM

A CORRESPONDENT, who has recently visited Australia, sends us the following account of the epic attack on prickly pear made by *Cactoblastis cactorum*, an insect imported from America for this specific purpose.

At Boonarga, a farming centre in Queensland, there stands a stone and corrugated iron building bearing the name "Cactoblastis Memorial Hall." This, so far as I am able to ascertain, is the only memorial in the world ever erected to an insect. The story starts in the year 1787 when Captain Arthur Philip and the first colonists sailed for Australia. Captain Philip came of a military family and, being imbued with military tradition, he naturally felt that his position could only be maintained if his soldiers wore red coats. The difficulty of providing red coats seemed to have troubled him considerably during the voyage. A solution was found, however, by obtaining at Rio de Janeiro a supply of the cochineal insect, together with specimens of a prickly pear on which this insect thrives. In due course the vessel and cargo arrived safely at Port Jackson and Captain Philip became the first Governor of Sydney.

A Destructive Cactus

It may be doubted whether the species of cactus imported by Governor Philip was that which was ultimately to create such havoc to some of the best timber and sheep farmlands of New South Wales and Queensland. The introduction of other species, however, cannot be traced. Since no cacti are indigenous to Australia, the dubious distinction of having introduced what was to prove one of the greatest enemies to the East Australian farmlands can be attributed to Governor Philip.

The two major Australian pest species of cacti are *Opuntia inermis* and *Opuntia stricta*. It appears that these species were first introduced in the outlying districts of Queensland and New South Wales by various landowners who, from 1840, used this cactus for growing hedges. When hedges flourished and became troublesome the plants were cut off and thrown out. As a result the pest obtained a firm footing.

Advance of the Prickly Pear

The early spread of the pear, however, seems to have been relatively slow. In 1884 the danger, which was to become more and more menacing, began to be appreciated. By 1900 an area of some ten million acres was affected. During the great

drought of 1902 the prickly pear had been used for feeding fat stock, and from then the "invasion" advanced with such speed that by 1920, 58 million acres of some of the finest timber and sheep lands were affected. By 1925 the acreage had increased to over 60 million.

It does not require a vivid imagination to visualise the terror which this slow advancing impenetrable barrier of prickly growth must have had on those who watched the annihilation of their life's work and the gradual overgrowing of their homestead. How was this menace to primary industry to be overcome? Mechanical methods had been tried without success. Time was pressing and the threat had become a national danger, threatening the very existence of the staple industries of Queensland and New South Wales. In 1920 the Commonwealth Prickly Pear Board was appointed, for the express purpose of attempting to control prickly pear by establishing in Australia the insect enemies and disease organisms which would attack these plants in their natural home.

Experimental Work

The first step taken by the Board was to send entomologists to North and South America to study the natural enemies of prickly pear and to establish bases for breeding eggs imported into Australia. Approximately 150 different species restricted to feeding and breeding on prickly pear and other types of cactus plants were discovered. Amongst these was *Cactoblastis cactorum*, a native of the Argentine and adjacent parts of South America. The larvæ of these insects, tunnelling in the segments of the stems of the prickly pear, reduced the plant to a rotting mass. On one consignment was introduced into Australia from the Argentine in 1922 consisting of 2,750 eggs. After being reared in cages through two generations, the small original number had multiplied to 1926 to 2,540,000 eggs. It was imperative of course, that the *Cactoblastis* should not feed on any products of value to Australia so before distributing the eggs to the various centres, experiments were carried out to discover what effect this insect had on the various indigenous products. The original opinion that *Cactoblastis* confined itself to two forms of prickly pear was found to be correct. The first trial distribution of eggs was made in 1926, and the large-scale rearing of eggs was continued

til the end of 1927. By this time the rease at the earliest liberation centres d been so great as to render unnecessary ther rearing at the field station. The mpaign of mass distribution, commenced 1928, was completed by 1930. The ults obtained bordered on the miraculous, d by June 1928 hundreds of acres of use prickly pear had collapsed, due to e concentrated attack of a phenomenal mber of larvæ. By 1933 the last big a of prickly pear in Queensland was overed and nearly 22 million acres of mer dense prickly pear country selected

for settlement. Full details of this remarkable achievement were published in a report from Professor H. Dodds, of Brisbane, entitled the "Biological Campaign against Prickly Pear," and published under the auspices of the Commonwealth Prickly Pear Board. The total area now under prickly pear is only a few thousand acres. The enemy of the agricultural farming communities in Queensland and New South Wales has been removed. Is it any wonder that the Boonarga Memorial Hall has been erected in memory of this remarkable insect?

AMERICAN NOTES

War-time to Peace-time Production.—

to avoid evils arising from the disposal of plus army medical supplies after the r (e.g., ointments sold from barrows in eets; surgical scissors and instruments d by haberdashers, etc.), Shook ("Journl of the American Medical Association," 2. I. 15) makes recommendations based an analysis of post-war needs. These he mmarises as including: Equipment of ucational institutions whose supplies and upment have become seriously depleted ring the war; replenishment of depleted ail stocks; return to normal methods of oduction (as against makeshift methods th substitute materials); and completion of hospital extensions where planned. He omends: An act by Congress that anufacturers who had filled Government ntracts should be permitted to re-urchase any surplus materials remaining the hands of the Government after the ssation of hostilities; retention of an ppropriate war reserve of non-deteriorating plies and equipment for future eventualis; a planning organisation to determine hat would be wanted, how much would e required and where it should be obtained; utious buying by retailers ("Better and ore substantial products will soon be on e market"); study by all industries of eir future status in a community sudnly removed from war-time production; d industry advisory committees to advise d assist the various Government agencies e the timely and judicious handling of rplus stocks of medical supplies.

Maintaining Professional Standards.—

ited States pharmacists are on their ard against attempts to register as phar-acists any qualified assistants who have en engaged in retail practice for a ngthy period or to legalise the operation

of a pharmacy with a pharmacist in atten-dance only part time. An editorial in the "American Journal of Pharmacy" states: "Terms such as 'for the duration only' or 'as an emergency measure' are adroitly introduced in order, in some way, to make it appear that these changes should be endorsed as a patriotic gesture but, once incorporated in law, their true significance would slowly unfold." Asking who was responsible for such legislation being introduced, the "Journal" says it is neither the public nor the individual pharmacist.

"Who then makes the representations to the lawmakers resulting in such monstrous legislative proposals? There seems but one likely answer: those retail groups to whom a college diploma and professional licensure mean nothing but another man whom they can place in one of their own establishments to exploit and manipulate solely for profit. Their interest in public welfare and professional responsibility is attested to with tongue-in-cheek. Profit and more profit is their only real interest and, if the public would stand for it, professional training as far as they are concerned could be dispensed with. To them the operation of a drug store and a grocery store are quite analogous except in the former case the legal requirement of a licensed pharmacist makes operational costs somewhat higher and, as the demand for trained men increases, their overhead costs for such personnel alarms them greatly. It would be really serious if they were forced to pay a pharmacist a salary equivalent to union wages for a carpenter or a bricklayer! It is unthinkable. If only legislation is needed to avoid such unheard-of things, political pressure must be used by all means. After all, what do professional standards mean when they stand in the way of dollars and cents? Not only do such standards make low-cost men hard to get but they imbue the possessor with a lot of foolish notions about the responsibility of the pharmacist in matters pertaining to public health, which is contrary to their policy of doing business."

STEAM TURBINE AS COAL SAVER

ONE of the most important of the methods in general use for the economical generation of power—especially when heating and process steam is required, as in the chemical industries—is the use of the steam turbine.

Two Varieties

This may be of pass-out or back-pressure type, according to conditions, and, if necessary, may be of very small size—less than 100 horse-power. In general a high-speed rotor is superior, for power generation,

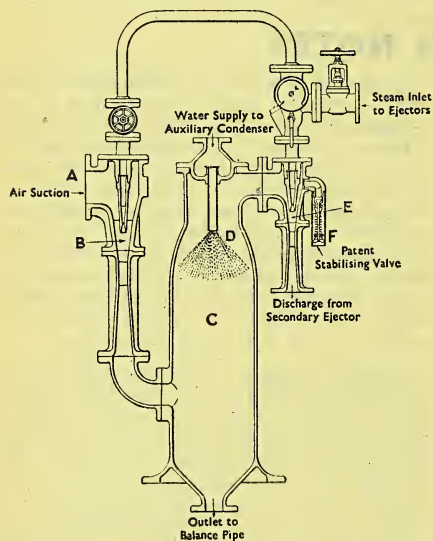


Diagram illustrating construction of Hargreaves Hivac ejector for jet condensers

to a relatively slow-speed reciprocating piston, especially in its small size and weight-per-unit power output, higher thermal efficiency, smooth turning-motion, absence of noise and vibration, and easy governing to within fine limits. Design and workmanship today ensure that a turbine may be just as reliable as a slow-speed reciprocating engine. In the construction of impulse industrial steam turbines of all types and sizes up to 4,000 h.p., Hick, Hargreaves & Co., Ltd., Bolton, have an extensive experience. They have specialised on the substitution of main engines by turbines, using the existing foundations and rope drives, adding electrical generators for lighting and driving part of the machinery.

Typical Installation

An installation typical of this type of plant is a 2,000-h.p. condensing steam turbine plant with 1½-in. diameter main driving ropes. The installation requires only 612 sq. ft. of space, embodying the standard arrangement of a low-level jet-type condenser fixed beneath the turbine, equipped with duplex steam-jet ejector and extraction pump driven through countershaft by ropes from the main turbine pulley. For the same duty two compound engines were formerly used, occupying a total area of 2,195 sq. ft., so that 1,583 sq. ft. has been saved. When the condenser cannot be placed beneath the turbine, possibly because of the small depth of the foundations, the total space occupied is still much less than for a steam engine, even when using combined rope driving and operation of an electric generator on the same shaft. With pass-out or back-pressure conditions the condensing steam turbine loses 50–60 per cent. of the heat of the coal in the cooling water.

Amount Saved

Consequently the saving obtained by pass-out or back-pressure operation is very great. A typical example of what can be accomplished is an establishment working 70 hours a week, with 2,000 h.p. and consumption of 35,000 lb. of steam per hour at 10 lb. per sq. in. for process work. With a steam pressure of 175 lb., 500° F. superheat, a condensing steam engine with reasonably good vacuum would require 24,000 lb. of steam per hour. At 7 lb. water per lb. of coal this is 108 tons of coal per week. For providing the heating steam alone another 140 tons of coal per week would be required, making a total coal bill of 248 tons a week. If, however, a pass-out turbine was installed with steam at 180 lb. at 525° F. as before, discharging at 10 lb. per sq. in. pressure all the 35,000 lb. of process steam per hour would be provided and the total consumption of coal would be only 156 tons per week against 248 tons—that is a saving of 92 tons of coal a week, 37 per cent.

MINISTRY OF HEALTH FILMS.—The Ministry of Information, on behalf of the Ministry of Health, has produced two sound films dealing with the diagnosis and treatment of scabies and the treatment of neurosis; the films are intended for exhibition to medical and scientific audiences and not to the general public.

TRADE REPORT

t quotations for pharmaceutical chemicals, crude drugs and essential oils represent prices for wholesale quantities of standard quality. C.i.f. quotations do not include the war risk insurance and other abnormal charges payable in the present emergency

28 Essex Street, W.C.2, August 11

th the usual lack of interest associated with the holiday season evident in all sections in the market, business has been confined to occasional sales of materials for direct consumption. Prices, with one or two exceptions, are at about the levels held during the past few weeks. In the PHARMACEUTICAL CHEMICALS section makers report that the quiet and somewhat depressed conditions which persisted recently have continued for the week under review with all previous prices repeated. Perhaps the most outstanding item among the crude drugs is CAPE ALOES, prices of which show an appreciable advance. It is reported that stocks at origin are meagre and are likely to be augmented by the recent arrivals. Collections, most of which will probably be required for local consuming purposes. BALSAM TOLU remains extremely low, but the price is unchanged. A good deal of inquiry has been received for SCARLETA SAGRADA, but no supplies are available to meet the current demand. ANIZIBAR CLOVES are fractionally easier on spot. Rather more interest has been shown in ERGOT, and fair buying of Portuguese is reported on spot. GUM ACACIA is steady at previously quoted rates. Very few conditions obtain for IPECACUANA, though spot stocks in short supply; some shipments of Minas have recently been made. MENTHOL is much quieter than of late, with no advance on the price mentioned last week. Some shipment offers of CANADA NUX VOMICA are noted. RHUBARB continues in good demand, but no price changes are indicated. SEEDS have been quiet and rather dull, with all previous prices repeated. No movements have occurred in prices of SENNA; importers' returns are being collated with a view to the issue of import licences. SQUILL is steady and unchanged. TRAGACANTH continues in fair request, with no quotable changes in prices of the principal medium grades. TURMERIC is neglected. In the ESSENTIAL OILS section numerous inquiries are being received, but supplies are not yet available to meet the demand. No important price changes have occurred among the "free" oils, and no indication has been given of the prices likely to be charged for

oils imported under the official scheme. ANISE (STAR) is about unchanged, with supplies difficult to locate. English distillers' prices for CLOVE are maintained. Only limited supplies of EUCALYPTUS are available, but the price is without quotable change. Dealers' quotations for LEMON-GRASS are steady. Chinese PEPPERMINT continues in good request, with dealers' quotations unchanged. No alterations have been notified in the controlled prices of FIXED OILS.

Pharmaceutical Chemicals

ATROPINE.—Makers quote the following prices per oz.: ALKALOID, 35s.; 4 oz., 34s. 6d.; 25 oz., 34s.; SULPHATE, 28s.; 4 oz., 27s. 6d.; 25 oz., 27s.; METHYL BROMIDE and METHYL NITRATE, 65s.

BARIUM SULPHATE (X-RAY).—Makers quote quantities of 28 lb.—1 cwt. as follows (containers in brackets): 1s. 5½d. (1-lb.); 1s. 4d. (4-lb.); 1s. 3d. (7-lb.); 1s. 2½d. (14-lb.); 1s. 2d. (28-lb.).

BENZOIC ACID.—Available for pharmaceutical and medicinal use at from 2s. 6d. to 3s. per lb., according to quantity.

BISMUTH CO. (PULV.), N.F.—Makers' prices per lb. for lots of 28 lb.—1 cwt. are as follows (containers in brackets): 2s. 3½d. (1-lb.); 2s. 2d. (4-lb.); 2s. 1d. (7-lb.); 2s. (28-lb.). Terms net one month.

BORAX.—Makers' prices per ton are as follows: Granulated B.P., £39 10s.; crystals, £40 10s.; powder, £41. Packed in one-cwt. bags, delivered carriage paid in Great Britain, in one-ton lots upwards. Commercial qualities, £8 per ton less.

BROMIDES.—POTASSIUM is priced by makers at the following rates per lb. (containers in brackets): 3s. 5½d. (1-lb.); 3s. 3½d. (4-lb.); 3s. 2½d. (7-lb.); 3s. 2½d. (14-lb.); 3s. 1½d. (28-lb.). SODIUM, ¾d. per lb. extra; AMMONIUM, 2½d. per lb. extra; powder, 2d. per lb. extra. W.D.T.A. packing charge applies to packages of less than 1 lb.

BRUCINE.—Quantities of under 25 oz. are priced as follows: ALKALOID, 1s. 4½d.; NITRATE and SULPHATE, 1s. 3½d. per oz.

CALCIUM GLUCONATE.—Makers quote at the following rates per lb.: 14 lb., 3s. 7d.; 28 lb., 3s. 4d.; 56 lb., 3s. 3d.; 1 cwt., 3s. 1d.

CITRATES.—Makers' prices per lb. for quantities of 28 lb. to 1 cwt. are as follows (containers in brackets): 3s. 2½d. (1-lb.); 3s. 1d. (4-lb.); 3s. (7-lb.); 2s. 11½d. (14-lb.); 2s. 11d. (28-lb.). IRON and AMMONIUM (SCALES), B.P., is at 3d. per lb. above and SODIUM is at 1d. per lb. below these prices.

CREAM OF TARTAR.—British manufacturers quote 287s. per cwt., less $2\frac{1}{2}$ per cent. discount.

DEXTRÖSE, B.P.—Current prices per lb. for quantities of 28 lb. to 1 cwt. are as follows (containers in brackets): 1s. 2½d. (1-lb.); 1s. 0½d. (4-lb.); 11½d. (7-lb.); 11½d. (14-lb.); 10½d. (28-lb.).

GLYCERIN.—Prices per cwt. for small quantities are as follows: 56-lb. tin, 99s.; 14-lb. tin, 105s., subject to $2\frac{1}{2}$ per cent. discount, twenty-eight days.

PHENOLPHTHALEIN.—Makers' quotations are steady at the following levels: less than 7 lb., 4s. 6d. per lb.; 7 lb., 4s. 5d.; 14 lb., 4s. 4d.; 28 lb., 4s. 3d.; 1 cwt., 4s. 2d.

PILOCARPINE.—The following are the current rates per oz.: BASE, 1 oz., 27s.; 4 oz., 26s. 6d.; 25 oz., 26s.; HYDROCHLORIDE, 1 oz., 21s. 3d.; 4 oz., 20s. 9d.; 25 oz., 20s. 3d.; NITRATE, 1 oz., 18s. 6d.; 4 oz., 18s.; 25 oz., 17s. 6d.

SALICYLIC ACID.—Makers' prices per lb. for lots of 28 lb. to 1 cwt. are as follows (containers in brackets): 2s. 6d. (1-lb.), 2s. 4½d. (4-lb.); 2s. 3½d. (7-lb.); 2s. 3d. (14-lb.); 2s. 2½d. (28-lb.). Prices net one month.

SANTONIN.—Home-trade prices are as follows: 10 kilos and over, £62; not less than 5 kilos, £63; 2-4 kilos, £64; 1 kilo, £65; 500 grams, £66; 250 grams, £67; 100 grams, £68; less than 100 grams, £69 per kilo. Carriage paid in United Kingdom.

SODIUM BENZOATE.—Supplies may be had at from 2s. 9d. to 3s. per lb., according to quantity.

SULPHANILAMIDE.—The current price would be in the region of 12s. 6d. per lb.

TARTARIC ACID.—British makers' price is steady at 3s. 4½d. per lb., less 5 per cent. discount.

VANILLIN.—Makers' prices are steady, as follows: Ex clove oil or guaiacol, 5 cwt., 22s. 6d. per lb.; 1 cwt., 22s. 9d.; 56 lb., 23s.; less than 56 lb., 23s. 3d.

Crude Drugs

AGAR.—A quiet business continues, with some Kobé No. 1 still available to approved buyers for bacteriological use at 65s. to 70s. per lb.

ALOES.—A brisk demand has been experienced during the past week for the Cape variety and spot supplies appear to have become severely depleted. Buyers were willing to pay 80s. per cwt. last week for spot goods. A small quantity is understood to be afloat, but orders sent out for further lots have brought back replies that stocks at source are small. Collections have apparently been meagre and will probably be required for local use. Curaçao continues to be neglected and prices are unchanged.

ANTIMONY.—English minimum 99 per cent. regulus is quoted steady on spot at £120 per ton, delivered; 70 per cent. crude for the home trade, £100 per ton, delivered. Supplies are reserved for essential purposes.

BALSAMS.—*Tolu* remains firm at 13s. 6d. per lb.; *Canada*, unchanged at 10s. 3d.; *Peru*, 8s. 6d.; *Copaiba* is unobtainable.

BELLADONNA.—Indian leaf may be had on spot at from 5s. to 5s. 3d. per lb., according to test. Indian root, from 4s. to 4s. 6d., also according to test.

BENZOIN.—Business has been confined to the sale of a few odd lots for the manufacture of B.P. preparations. Fair-quality Sumatra block, spot £22 10s. to £25 per cwt. Free "almonds," £32, ex store.

CAMPHOR.—Supplies of both synthetic and natural imported by the Ministry of Supply are available for distribution to approved users. Re-sale prices for quantities under 7 lb. are awaited.

CARDAMOMS.—Aleppy seed are steady on spot at 6s. 6d. per lb., with Aleppy greens at 5s. 6d. per lb., and split seed, 5s. 6d. Business is practically at a standstill.

CASCARA SAGRADA.—Considerable inquiry is again noted but there are no offers from origin.

CHAULMOOGRA.—*Hydrocarpus* oil, 1s. 3d. per lb., in bond Liverpool.

CHILLIES.—Mombasa remain in good inquiry with the spot price steady at 120s. per cwt. No other varieties are offered.

CLOVES.—Zanzibar are fractionally easier at 1s. 5d. per lb. on spot; second grade, to arrive rod. per lb., c.i.f., sellers.

COCOA BUTTER.—The maximum official price is 1s. 5½d. per lb. ex factory or warehouse, except when sales are made under licence.

COCONUT (DESICCATED).—Ministry of Food Order fixes the maximum selling price at 49s. per cwt.

DIGITALIS LEAVES.—Spot supplies of Portuguese may be obtained at 135s. per cwt. English-grown leaves, in less plentiful supply, at 2s. 6d. per lb.

DRAGON'S BLOOD.—The only variety available is dull Zanzibar drop, which may be had on spot at £21 per cwt.

ELEMI.—No. 1 gum is quoted on spot at 330s. to 340s. per cwt., but supplies are not plentiful.

ERGOT.—A rather better demand has been experienced with fair buying of Portuguese on spot. Any remaining supplies would be worth 5s. per lb.

GALANGAL ROOT.—Quoted at 95s. per cwt. in bond, Liverpool.

GUM ACACIA.—Spot price of Kordofan clean sorts remains at 95s. per cwt.; bleached, for shipment, 140s. c.i.f. A quantity of clean Talha is offered at 55s., landed terms.

HENBANE LEAVES.—Indian leaves are offered on spot at between 200s. and 300s. per cwt. according to test.

IPECACUANHA.—Firm conditions obtain, with any available Matto Grosso on spot worth 22s. per lb.; Minas, B.P., 18s. 6d. to 18s. 9d. per lb., if available; under B.P. standard 17s. to 17s. 6d. per lb., according to test. Some

Shipments of Minas have recently been made. Current prices of EXT. IPECAC. LIQ. are as follows: Winchester, B.P., 1932, under three, 6s. 6d. per lb.; three and under six, 30s.; six and under twelve, 29s. 6d.; twelve and over, 29s. B.P., 1914, under three, 28s. 6d.; three and under six, 28s.; six and under twelve, 27s. 6d.; twelve and over, 27s. per lb.; all prices quoted are on a net basis.

KAMALA.—Material testing 5 per cent. ash is available in small compass on spot at 1s. 9d.

MENTHOL.—Conditions are again quiet with 15s. per lb. asked generally for spot supplies.

MERCURY.—Controlled prices range from 108 10s. to £69 15s. per bottle, for quantities of over 7 lb.

NUX VOMICA.—Some shipment offers of Mocanada at 32s. 6d. per cwt., c.i.f.; spot, 7s. 6d. Cochín, washed and garbled, spot, 2s. 6d.

PEPPERS.—Maximum prices of whole, not cracked over or cleaned, on sale to processors, are at 1s. 4d. per lb. for white, and 1s. per lb. for black, both duty paid.

PIMENTO.—Sellers on spot at 1s. 9d. per lb.; shipment, unquoted.

PODOPHYLLUM.—Untested, spot, 95s. per cwt.; shipment, 72s. 6d., c.i.f.

PSYLLIUM SEED.—Indian seed may be obtained on spot at 1s. 3d. per lb., ex store.

QUILLAIA BARK.—Crushed or cut bark, spot, 10s. per cwt.; natural, afloat, 75s., c.i.f.

RHUBARB.—Continues in good demand with prices at the levels last quoted. Rough-round, spot, 7s. 9d. to 8s. per lb.; flat high-dried, rough-coat, 8s. to 8s. 3d.; slightly wormy, 8s.; prime pickings, 10s.

SEEDS.—Conditions have again been quiet with no further change in prices. CORIANDER.—Indian, 92s. to 92s. 6d. per cwt. CUMIN.—Altese, spot, 122s. 6d.; Indian, 112s. 6d. FENNEL.—160s., ex wharf Glasgow; 170s., ex wharf London. FENNEL.—Nominal at 90s. MUSCARD.—May be had at 82s. 6d. MUSTARD.—Controlled prices unchanged.

SENNA.—No movements have occurred in prices pending collation of importers' returns.

SQUILL.—Quiet. Portuguese, spot, 80s. per cwt.; Indian, 72s. 6d.

TRACACANTH.—Demand continues fair with quotations unchanged. The principal medium grades are priced as follows: No. 1, white, £130 per cwt.; No. 2, white, £115; No. 3, white, £102; No. 4, white, £83; pale leaf, £73; amber leaf, £65; dark amber, £50; brown leaf, £45; red-and-brown leaf, £38; red leaf, from £32; leafy, light, from £17; woody and dark, £12.

TURMERIC.—Few inquiries; prices unchanged. Good quality Madras finger, spot, 60s. per cwt.; wormy, 57s. 6d.

WAXES.—BEES.—Through Association of Merchant Distributors of Beeswax only. CARAUABA.—Firm. Fatty grey and chalky grey, spot, 430s.; Primeira, 530s. per cwt.

Essential and Expressed Oils

ANISE (STAR).—Continues in fair demand with supplies extremely limited. The price would be in the region of 70s. per lb.

BAY.—Spot price of any available small supplies would be in the region of 12s. 6d. per lb.

BOIS DE ROSE.—Any available small spot supplies would be worth about 47s. per lb.

CAJUPUT.—Any available small spot supplies would be worth about 15s. per lb.

CINNAMON LEAF.—Obtainable on spot at the unchanged price of about 15s. 6d. per lb.

CITRONELLA.—Request continues with Java oil quoted at about 25s. per lb. and Ceylon about 21s. 6d. per lb.

CLOVE.—No change has been notified in English distillers' prices for B.P. oil at 14s. per lb.; imported oil would be cheaper according to grade.

CROTON.—Quoted at 9s. 6d. per lb.

EUCALYPTUS.—Small quantities of oil containing from 70 to 75 per cent. cineole would be worth about 6s. 6d. per lb. on spot.

GERANIUM.—Small lots of genuine North African oil may be had at around 85s. to 90s. per lb.

GINGER.—About 90s. per lb. would be wanted for English-distilled oil.

GINGERGRASS.—Spot price for small quantities remains in the region of 22s. 6d. per lb.

GROUNDNUT.—Controlled prices for bulk supplies are as follows: refined deodorised, £58 per ton; refined hardened deodorised, to 40°, £62; refined hardened deodorised, to 50° to 52°, £62; all naked ex works.

LEMONGRASS.—Dealers quote 15s. to 16s. per lb. for spot supplies.

NUTMEG.—Oil from West Indian nutmegs may be obtained at about 42s. per lb.

PALM.—Official price of refined deodorised remains at £55 per ton and that of refined hardened deodorised at £58 per ton, both naked ex works.

PALM KERNEL.—Controlled price is £49 per ton, naked ex works, for refined deodorised, and £53 per ton for hardened refined deodorised.

PENNYROYAL.—Spot is available from about 40s. to 45s. per lb.

PEPPERMINT.—Supplies are extremely difficult to find; a price of 102s. 6d. to 105s. per lb. is mentioned for Chinese oil.

PETITGRAIN.—Supplies on spot are extremely small; price is about 25s. per lb.

RAPESEED.—Bulk supplies are controlled at £60 per ton, naked ex works.

ROSEMARY.—Any available spot supplies would be priced at approximately 16s. per lb.

SPIKE.—If available on spot would be worth about 32s. 6d. per lb.

THYME.—Any available spot supplies of high-grade oil would bring in about 25s. per lb.

VETIVERT.—Spot, about 95s. per lb.

CORRESPONDENCE

Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor

Chemists' Business Methods

SIR,—At a recent pharmaceutical meeting a member asked: "Why, if manufacturers could be blackmailed to selling to the sixpenny stores, could they not be forced to join the C.F. scheme?" Let me say from some years of experience "on the road" that generally speaking pharmacists are neither good nor wise buyers. However, let me illustrate my point with a few examples. When paraff. liq. B.P. was short some pharmacists refused ten-gallon drums because the price was twopence per gallon more than the local wholesalers', many of whom it was openly stated were unable to supply more than a winchester per month.

During the past two winters some pharmacists with good businesses have refused to purchase a C.F. throat pastille made with a glycerin and gelatin base and sweetened with sugar because "it is little known and they are seldom asked for it." Recently a chemist refused some analgesic tablets (which are in very short supply) because he could not obtain 5 per cent. maker's bonus—despite the fact that the product is so short the makers are unable to supply direct. One man who bought some eye lotion (C.F. line—but in acutely short supply) did not receive much demand for same, so he passed it on to a friend who runs a drug store. The latter is an exceptional case, the former are not. They are common and are occurring daily. Surely, then, it is not for the pharmacists to speak of "blackmail"—but for the pharmacists to go out for business; make themselves familiar with the goods available for sale and push them; clean up their shops—soap and a duster can do an enormous amount of good—so manufacturers will be proud to know their products are sold by pharmacists. Pharmacists who desire victory for the C.F. scheme, or better still the restriction of sale of medicines, by the Government, to pharmaceutical sources only, should prove themselves worthy of such confidence. They certainly should go out to prove themselves worthy of exclusive support by manufacturers. Bright clean shops have been and still are today the chief attraction of the multiple stores.

Yours faithfully,

Stoneygate, KENNETH E. WHITE,
Leicester. M.P.S.

MISCELLANEOUS INQUIRIES

Clerici Solution.—J. S.—This preparation consists of thallium formate and thallium malonate in the proportion of 1-1 according to molecular weights. These substances are titrated in water to a specific gravity of 4 to 4.15. The preparation is used for the separation of minerals.

Ivory Polishing Paste.—G. H.—There is a formula for ivory polishing paste in "Pharmaceutical Formulas Volume II," which consists of a paste made of soft soap and prepared chalk, or you might experiment with a formula containing:—

Kieselguhr	2 oz.
Prepared chalk	4 oz.
Fuller's earth	4 oz.

Lipstick Manufacture.—In making the lipsticks it is important that the temperature employed should not be more than a few degrees above the highest melting constituent. When the lipsticks have been removed from the moulds they should be passed through the flame of a spirit lamp to impart a perfect and smooth finish. If they are then stored at a proper temperature we do not think the glossy finish should in any way be impaired.

Weight-reducing Diet.—W. M. N.—We think one of the publications on the Hay system will meet your requirements. These books are as follows: "The Hay System Menu Book," 5s.; "Health via Food," 8s. 6d.; "A New Health Era," 8s. 6d.; "Dr. Hay's Foolproof Meal Chart," 4s. 6d.; "The Hay System Pocket Guide," 2s. 6d.; "Weight Control," 3s. 6d.; "Building Better Bodies," 5s.; "The Hay System Child Development," 6s.; "The Official Cook Book of the Hay System," 18s.; "The Hay System Cookery Book," 6s. All published by G. G. Harrap & Co., Ltd.

Mongolianism.—J. D.—A recent view that the cause is pituitary breakdown of the mother during pregnancy. Apart from special education and care of the child little can be done. The most recent published monograph, so far as we are aware, is Benda's "Observations on Malformation of the Head in Mongoloid Deficiency" ("Journal of Pediatrics," 1941, 19, 800). "Endocrine Aspects of Mongolianism," by the same author, appeared in the "Journal of Clinical Endocrinology" (1942, 11, 73). Both journals are American. The only fairly recent book dealing with Mongolianism is "Mental Deficiency," by Penrose (Sidgwick & Jackson, Ltd., 44 Museum Street, London, W.C.1, price 10s. 6d.). This was published about ten years ago.

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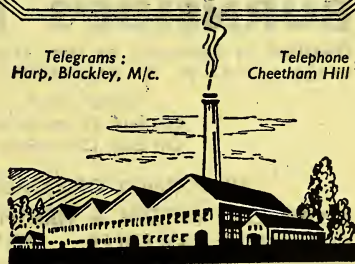
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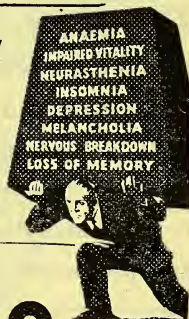


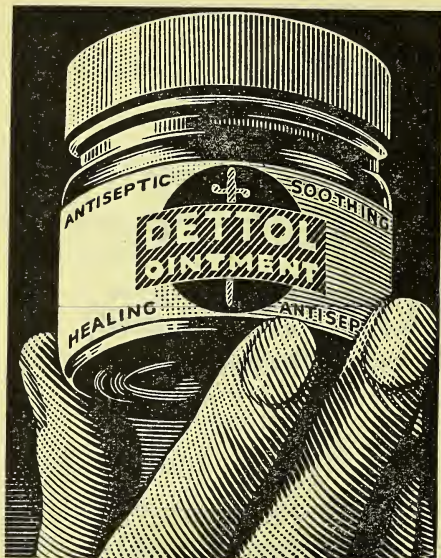
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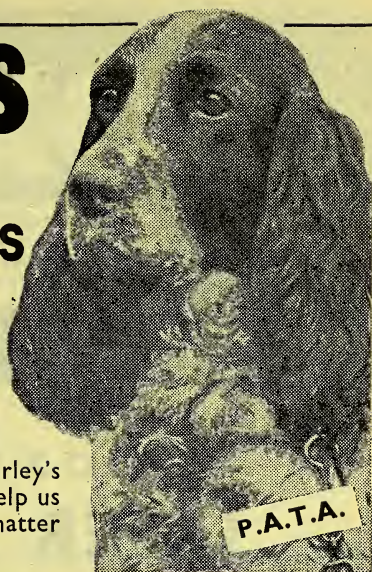
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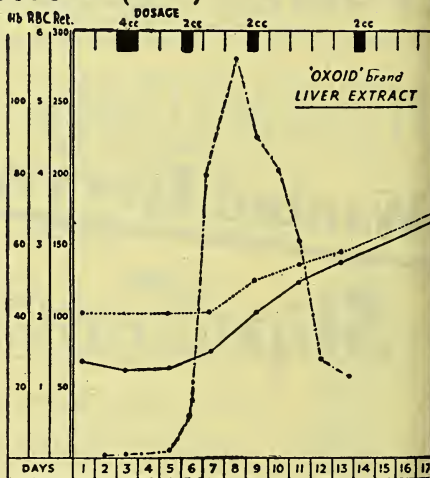
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The CHEMIST AND DRUGGIST

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AUGUST 14
1943

28 ESSEX STREET, LONDON, W.C.2

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